

Electronics related Products Guide



Smartphone

Smart phones that are now essential goods for daily living are composed of a lot of electronic components and modules.

Attachment of a touch sensor to a liquid crystal panel with a UV-curable sheet-like adhesive enables a screen to be easily watched, and use of a low-temperature curable/UV-curable sealant for connection of a cover panel

and case can produce “waterproof and drip-proof” devices.

In addition to the above that ThreeBond's products can do, the company's sealants and adhesives contribute to manufacturing of thinner, lighter, and more highly functional smart phones and their electronic components and modules.

Smartphone

Fingerprint sensor

Application	Folder fixing	Application	Grounding
Product	ThreeBond 2206S	Product	ThreeBond 3331D
Characteristics	1. Curing at 80°C for 30 min 2. High strength of adhesion to resin materials	Characteristics	1. Curing at 80°C for 60 min 2. Low resistivity 3. High adhesion to metal parts
Cure condition	heat curing	Cure condition	heat curing

Cover panel

Application	Cover panel circumference adhesion	Application	Cover panel end face coating
Product	ThreeBond 1539	Product	ThreeBond 3020B ThreeBond 3027J
Characteristics	1. Reaction starts in one minute at about 60°C. 2. A plant-based material is used. 3. Elasticity is generated in a wide temperature range (-35 to 100°C).	Characteristics	1. High strength of adhesion to glass and resin 2. Black (Optical Density:1.6~/250μm) 3. Deep curability
Cure condition	Heat curing	Cure condition	UV curing

Crystal device

Application	Crystal piece connection and fixing
Product	ThreeBond 3303G (NEO) ThreeBond 3303Z ThreeBond 3304D
Characteristics	1. Good reliability when heated 2. Minute-amount application possible
Cure condition	Heat curing

Vibrating motor

Application	Magnet fixing
Product	ThreeBond 1357K/1390R ThreeBond 2206S ThreeBond 3062U
Characteristics	1. Fast-curing property 2. Shadow-zone curability
Cure condition	Anaerobic curing (UV curing) / Heat curing

Case

Application	Waterproof CIPG
Product	ThreeBond 3081 Series
Characteristics	1. Low compression permanent distortion 2. Flexibility 3. High sealing performance 4. Reworkable
Cure condition	UV curing

Touch sensor / Display panel

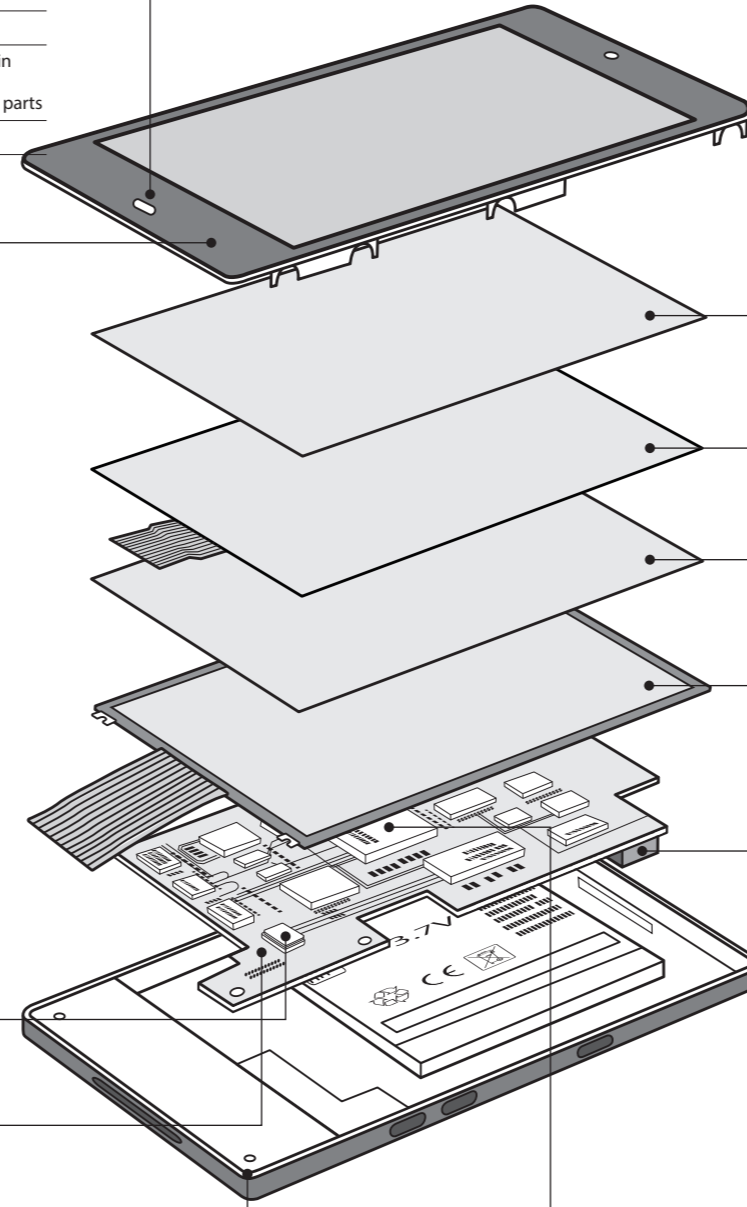
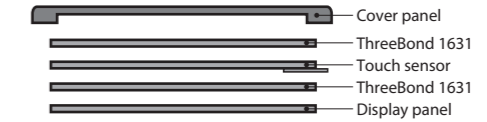
Application	Sticking Cover panel / Touch sensor / Display panel	Application	Display gap filling
Product	ThreeBond 1631	Product	ThreeBond 1535 Series ThreeBond 1539
Characteristics	1. Uniform film thickness 2. Flexibility 3. High transparency	Characteristics	1. Bonding of a different type of material to another 2. Elasticity is generated in a wide temperature range (-35 to 100°C).
Cure condition	UV curing	Cure condition	Moisture curing / Heat curing
Application	FPC reinforcement	Application	Grounding
Product	ThreeBond 3027G	Product	ThreeBond 3331D ThreeBond 3350C
Characteristics	1. High detachability 2. Bonding of a different type of material to another 3. Fast-curing property	Characteristics	1. Fast-curing property 2. Low resistivity
Cure condition	UV curing	Cure condition	Heat curing / Room temperature dry type

Camera module

Application	Lens fixing	Application	Grounding
Product	ThreeBond 3020B ThreeBond 3074C	Product	ThreeBond 3331D
Characteristics	1. High strength of adhesion to glass and resin 2. Blackening after UV irradiation (TB3020B) 3. High transparency (TB3074C)	Characteristics	1. Curing at 80°C for 60 min 2. Low resistivity 3. High adhesion to metal parts
Cure condition	UV curing / LED curing	Cure condition	Heat curing
Application	IR cut-off filter fixing	Application	Folder fixing
Product	ThreeBond 3170B	Product	ThreeBond 2206S
Characteristics	1. Fast-curing property 2. Deep curability 3. High strength of adhesion to resin materials	Characteristics	1. Curing at 80°C for 30 min 2. High strength of adhesion to resin materials
Cure condition	Visible light and UV curing	Cure condition	Heat curing

IC

Application	IC heat dissipation
Product	ThreeBond 1225 Series
Characteristics	1. High thermal conductivity (1.59 to 2.5W/m·K) 2. Low molecular weight cyclic siloxane reduced product
Cure condition	Moisture curing



Smart Watch

Smart watches, which are growing in popularity as a next-generation device following on from smart phones and tablets, use a variety of adhesives. Electronic parts and modules that are equipped in smart watches are similar to those for smart phones and tablets, however, needs for adhesives change little by little due to downsizing.

Among them, “fine application to small-size electronic parts” , “heating prevention” and “waterproofing and drip-proofing” can be named as needs. With our technology and products that have been cultivated over many years, Threebond's sealants and adhesives can meet all needs.

Camera Module

Touch sensor / Display panel

Application	Sticking Cover panel / Touch sensor / Display panel	Application	Display gap filling
Product	ThreeBond 1631	Product	ThreeBond 1535 Series ThreeBond 1539
Characteristics	1. Uniform film thickness 2. Flexibility 3. High transparency	Characteristics	1. Bonding of a different type of material to another 2. Elasticity is generated in a wide temperature range (-35 to 100°C).
Cure condition	UV curing	Cure condition	Moisture curing / Heat curing
Application	FPC reinforcement	Application	Grounding
Product	ThreeBond 3027G	Product	ThreeBond 3331D ThreeBond 3350C
Characteristics	1. High detachability 2. Bonding of a different type of material to another 3. Fast-curing property	Characteristics	1. Fast-curing property 2. Low resistivity
Cure condition	UV curing	Cure condition	Heat curing / Room temperature dry type



Cover panel

Application	Cover panel end face coating	Application	Cover panel circumference adhesion
Product	ThreeBond 3020B ThreeBond 3027J	Product	ThreeBond 1535 Series ThreeBond 3074C
Characteristics	1. High strength of adhesion to glass and resin 2. Black (Optical Density:1.6~/250μm) 3. Deep curability	Characteristics	1. High strength of adhesion to glass and metal 2. High sealing performance
Cure condition	UV curing	Cure condition	Moisture curing / UV curing

Vibrating motor

Application	Magnet fixing	Application	Coil and FPC fixing
Product	ThreeBond 1357K/1390R ThreeBond 2206S ThreeBond 3062U	Product	ThreeBond 2206S ThreeBond 3065E
Characteristics	1. Fast-curing property 2. Shadow-zone curability	Characteristics	1. Fast-curing property 2. Bonding of a different type of material to another
Cure condition	Anaerobic curing (UV curing)/ Heat curing	Cure condition	Heat curing / UV curing (Anaerobic curing)

Li ion secondary battery

Application	Fixing
Product	ThreeBond 1535 Series
Characteristics	1. Bonding of a different type of material to another 2. Elasticity is generated in a wide temperature range (-35 to 100°C).
Cure condition	Moisture curing

Substrate

Application	Waterproof coating
Product	ThreeBond 1535 Series ThreeBond 3074C
Characteristics	1. Adhesion · Sealability 2. Durability 3. Unheated Heat-curing
Cure condition	Moisture curing / UV curing

Crystal device

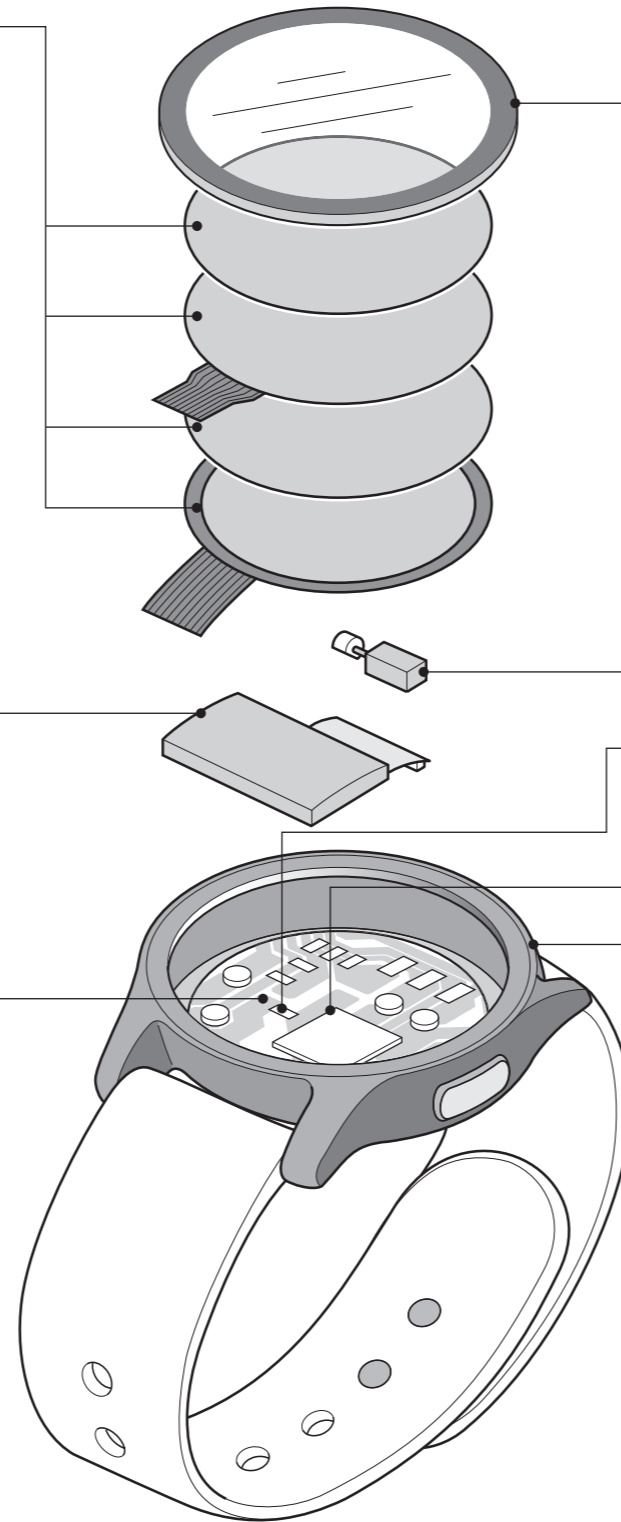
Application	Crystal piece connection and fixing
Product	ThreeBond 3303G (NEO) ThreeBond 3303Z ThreeBond 3304D
Characteristics	1. Good reliability when heated 2. Minute-amount application possible
Cure condition	Heat curing

IC

Application	IC heat dissipation
Product	ThreeBond 1225 Series
Characteristics	1. High thermal conductivity (1.59 to 2.5W/m·K) 2. Low molecular weight cyclic siloxane reduced product
Cure condition	Moisture curing

Case

Application	Waterproof CIPG
Product	ThreeBond 3081 Series
Characteristics	1. Low compression permanent distortion 2. Flexibility 3. High sealing performance 4. Reworkable
Cure condition	UV curing



Camera Module

A lot of adhesives are used for small-size camera modules installed in smart phones and tablet terminals. Since the number of manufactured small-size camera modules is large, adhesives that cure fast at low temperature are needed to shorten

manufacturing processes.

ThreeBond provides a lineup of products, each of which is suitable to a desired location, to meet customer needs.

Camera Module

Lens unit

Application	Lens fixing
Product	ThreeBond 3020B ThreeBond 3074C
Characteristics	1. High strength of adhesion to glass and resin 2. Blackening after UV irradiation (TB3020B) 3. High transparency (TB3074C)
Cure condition	UV curing / LED curing

IR cut-off filter

Application	IR cut-off filter fixing
Product	ThreeBond 3170B
Characteristics	1. Fast curability 2. Deep curability 3. High strength of adhesion to resin materials
Cure condition	Visible light and UV curing

FPC

Application	FPC reinforcement
Product	ThreeBond 2206S ThreeBond 2296B
Characteristics	1. Curing at 60 to 80°C for 30 min 2. Bonding of a different type of material to another
Cure condition	Heat curing

Actuator

Application	Flat spring and Magnet fixing	Application	Others, fixing/sealing
Product	ThreeBond 2296B	Product	ThreeBond 2206S
Characteristics	1. Curing at 60 to 80°C for 30 min 2. Bonding of a different type of material to another 3. Low elasticity	Characteristics	1. Curing at 80°C for 30 min 2. High strength of adhesion to resin materials
Cure condition	Heat curing	Cure condition	Heat curing

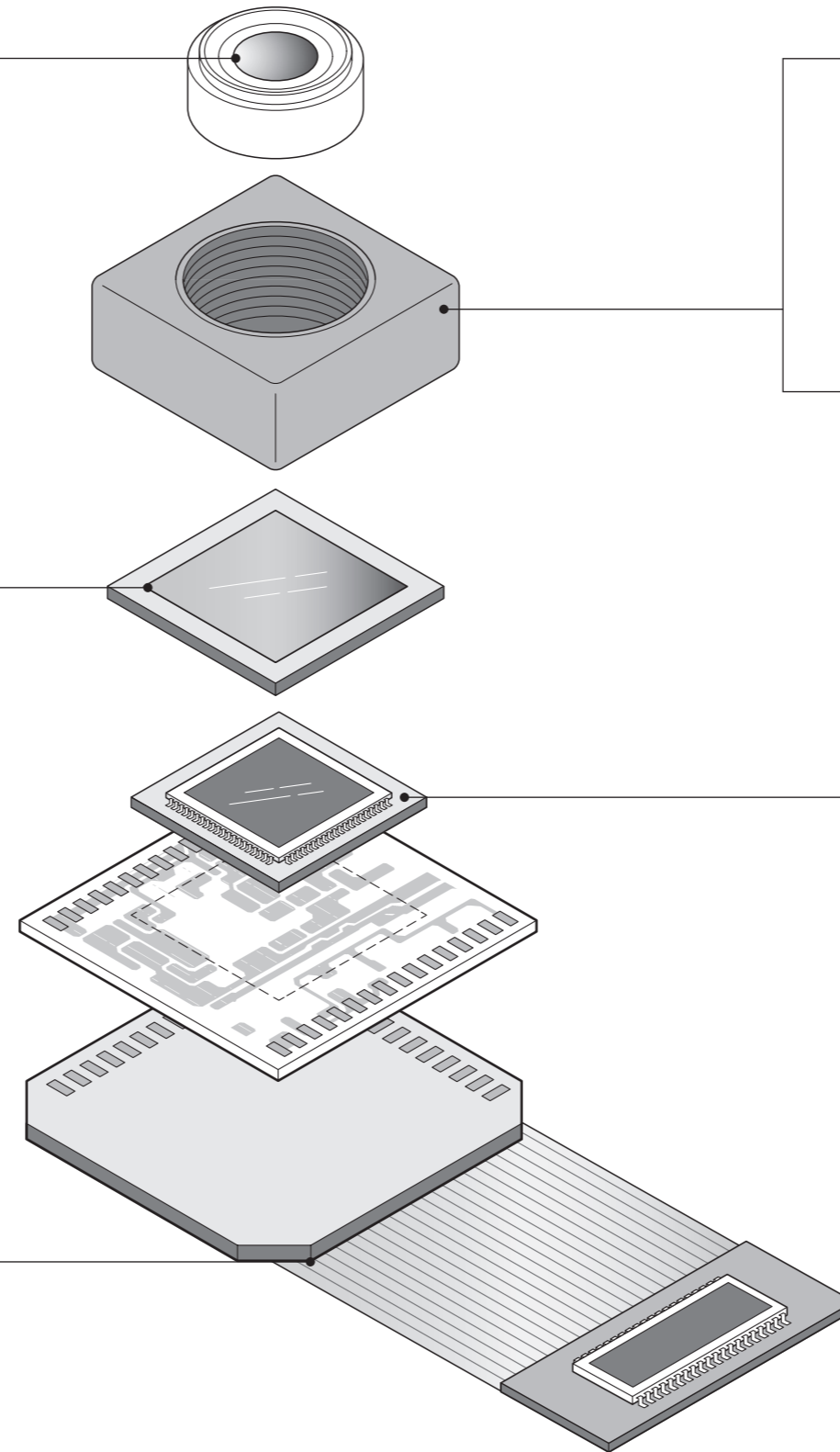
Actuator

Application	Vibration absorption
Product	ThreeBond 3168
Characteristics	1. High and low temperature resistance 2. Soft gel 3. Vibration absorbability
Cure condition	UV curing

Sensor

Application	Sensor fixing
Product	ThreeBond 2296B
Characteristics	1. Curing at 60 to 80°C for 30 min 2. Bonding of a different type of material to another 3. Low elasticity
Cure condition	Heat curing

Application	Grounding
Product	ThreeBond 3331D
Characteristics	1. Curing at 80°C for 60 min 2. Low resistivity 3. High adhesion to metal parts
Cure condition	Heat curing

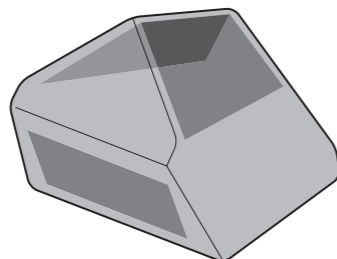


Digital Camera

A lot of adhesives are used for the mechanical components of cameras including a single lens reflex camera. As the design of a camera becomes smaller and thinner, LED light source-curable adhesives are needed in order to bond a different

type of material to another, to reduce the amount of heat applied to materials, and to reduce power consumption in camera manufacturing processes. ThreeBond develops and manufactures adhesives that are the most appropriate to a customer's manufacturing processes and provide such products on a global basis.

Digital Camera



Pentaprism

Application	Pentaprism fixing
Product	ThreeBond 3030 Series
Characteristics	1. High adhesion to resin materials (PC, PPS, etc.) 2. Flexible 3. Bonding of a different type of material to another
Cure condition	UV curing

Strobe

Application	Strobe periphery fixing
Product	ThreeBond 1533 Series ThreeBond 3164D
Characteristics	1. Good impact resistance 2. Bonding of a different type of material to another 3. Shadow-zone curing possible
Cure condition	Moisture curing / UV curing

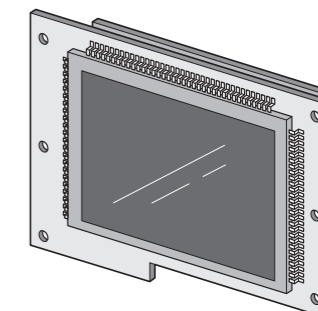
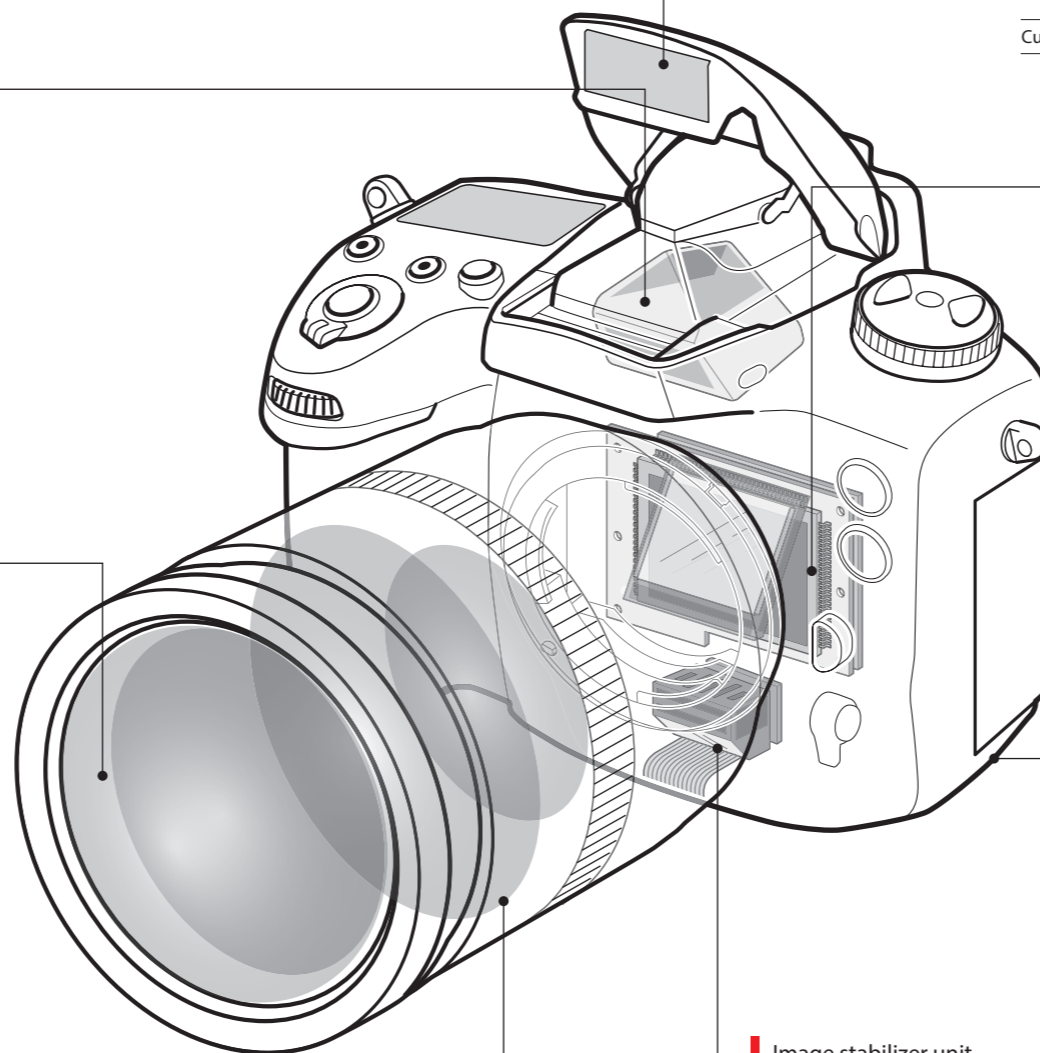


Image pickup device

Application	Image pickup device fixing
Product	ThreeBond 3036 Series ThreeBond 3114 Series
Characteristics	1. Low cure shrinkage 2. Low linear expansion coefficient 3. High adhesive strength
Cure condition	UV curing
Application	Photographing element heat dissipation
Product	ThreeBond 1225 Series ThreeBond 2955 Series
Characteristics	1. High thermal conductivity (1.59 to 4.8W/m·K) 2. Low outgassing (TB 2955 Series) 3. Low molecular weight cyclic siloxane reduced product
Cure condition	Moisture curing

Glass and resin lens

Application	Bonding of lenses
Product	ThreeBond 3017 Series ThreeBond 3020B ThreeBond 3074C
Characteristics	1. High strength of adhesion to materials difficult to bond (olefin-based) 2. Good surface curability 3. Less distortion (TB 3017 Series)
Cure condition	UV curing / LED curing



Case / Lens mount

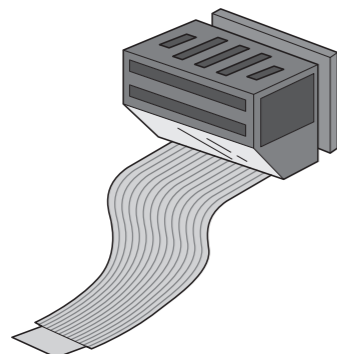
Application	Waterproof CIPG
Product	ThreeBond 3081 Series ThreeBond 3166
Characteristics	1. Low compression permanent distortion 2. Flexibility 3. Reworkable
Cure condition	UV curing

Image stabilizer unit

Application	Vibration absorption
Product	ThreeBond 3168
Characteristics	1. High and low temperature resistance 2. Soft gel 3. Vibration absorbability
Cure condition	UV curing

AF sensor

Application	AF sensor fixing
Product	ThreeBond 1533 Series ThreeBond 3017 Series
Characteristics	1. Good impact resistance 2. Bonding of a different type of material to another 3. Shadow-zone curing possible (TB 1533 Series)
Cure condition	Moisture curing / UV curing / LED curing



Surveillance Camera

In recent years, increasing awareness of global security has been accompanied by spreading adoption of surveillance cameras as a deterrent to crime and terrorism. For many years, our UV-curable resin has contributed to security cameras,

mainly to the adhesive application for optical parts. Increasing numbers of pixels in recent years have brought an increasing need for "heat dissipating agents" as protection against overheating, and for "sealants" as waterproofing and protection from insects.

Surveillance Camera

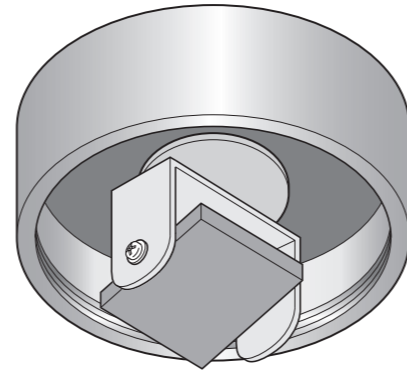


Image pickup device

Application	Photographing element heat dissipation
Product	ThreeBond 1225 Series
Characteristics	1. High thermal conductivity (1.59 to 2.5W/m·K) 2. Low molecular weight cyclic siloxane reduced product
Cure condition	Moisture curing

Sensor

Application	Image pickup device fixing
Product	ThreeBond 3036 Series ThreeBond 3114 Series
Characteristics	1. Low cure shrinkage 2. Low linear expansion coefficient 3. High adhesive strength
Cure condition	UV curing
Application	Grounding
Product	ThreeBond 3331D
Characteristics	1. Curing at 80°C for 60 min 2. Low resistivity 3. High adhesion to metal parts
Cure condition	Heat curing

Lens unit

Application	Lens fixing
Product	ThreeBond 3020B ThreeBond 3030 Series ThreeBond 3074C
Characteristics	1. High adhesion to resin materials (PC, PPS, etc.) 2. Flexible 3. Bonding of a different type of material to another
Cure condition	UV curing / LED curing

IR cut-off filter

Application	IR cut-off filter fixing
Product	ThreeBond 3170B
Characteristics	1. Fast curability 2. Deep curability 3. High strength of adhesion to resin materials
Cure condition	Visible light and UV curing

Top cover

Application	Water repellent coating
Product	ThreeBond 2907
Characteristics	1. Single-component (silane-based) 2. Antifouling 3. Weather resistant
Cure condition	Moisture curing

Case

Application	Waterproof / insect repellent coating (CIPG)
Product	ThreeBond 3081 Series ThreeBond 3166
Characteristics	1. Low compression permanent distortion 2. Flexibility 3. Reworkable
Cure condition	UV curing

Car Mounted Display / Camera

The number of on-board automobile displays and cameras has continued to increase as automotive electronics and safety performance improve. In the automotive field, heat resistance

and reliability must be higher than for general electronic equipment. ThreeBond utilizes our accumulated know-how to develop and produce adhesives and sealants that contribute to technological innovation in the automotive industry.

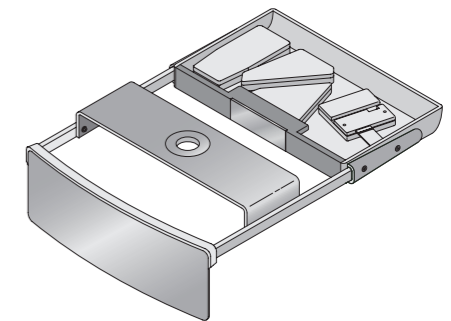
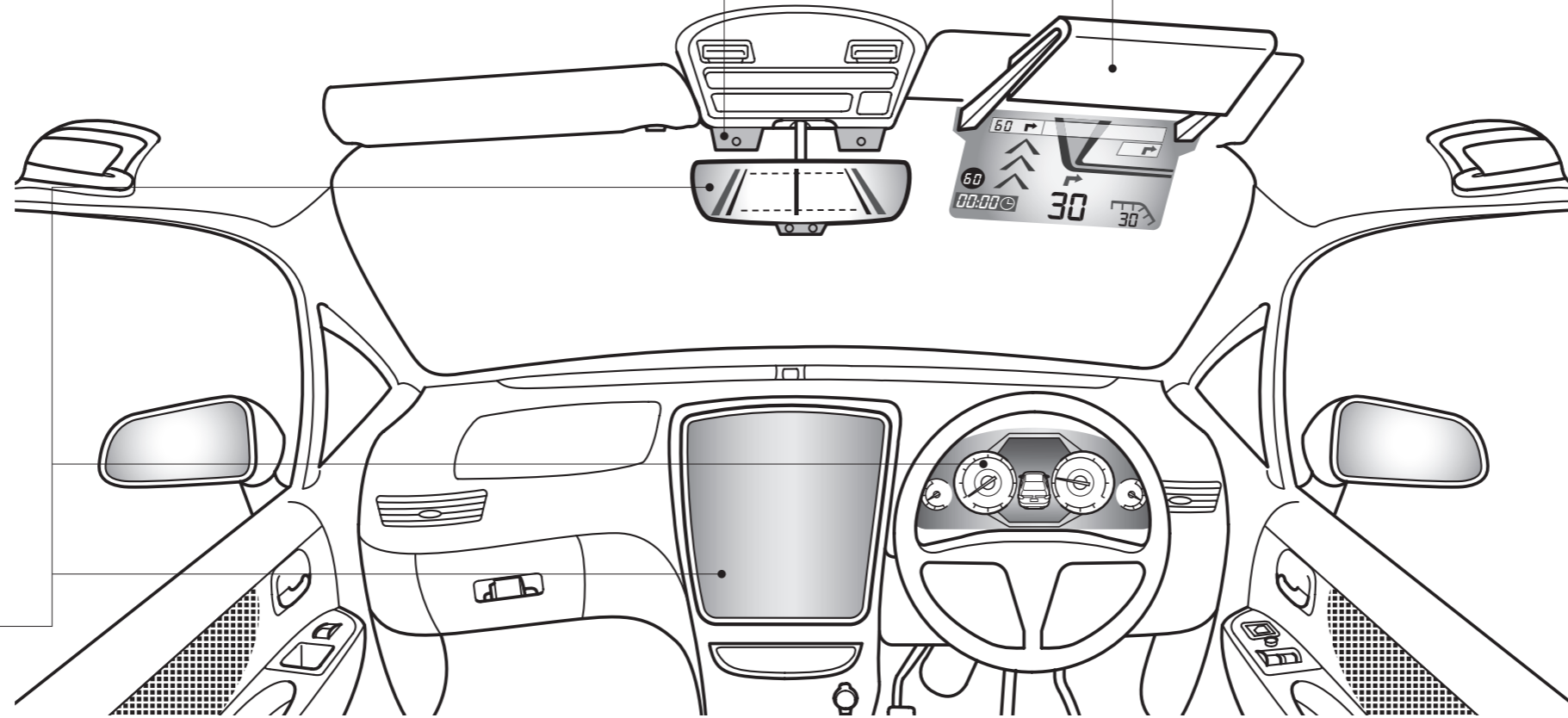
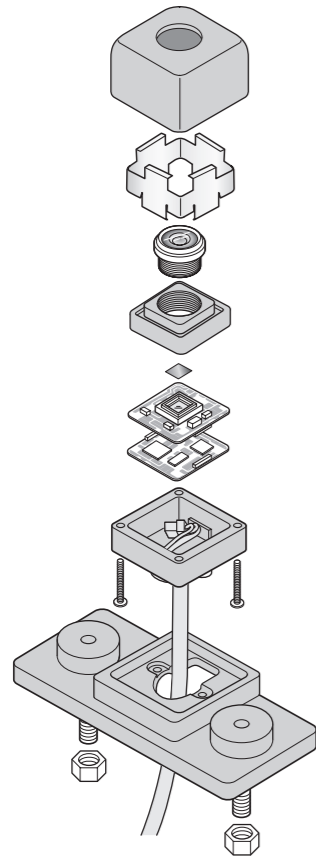
Car Mounted Display / Camera

Car Mounted Camera

Application	Lens fixing	Application	Image pickup device fixing
Product	ThreeBond 3036 Series ThreeBond 3114 Series	Product	ThreeBond 2206S ThreeBond 2270 Series
Characteristics	1. Bonds well to a variety of adherend materials 2. Low cure shrinkage 3. High heat resistance	Characteristics	1. Low cure shrinkage 2. Cures at low temperatures (TB2206S) 3. High thermal conductivity (TB2270 series)
Cure condition	UV curing	Cure condition	Heat curing

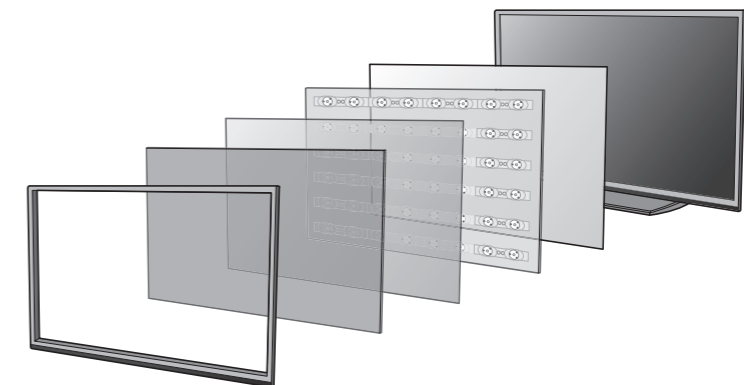
Head-Up Display

Application	Lens, mirror fixing	Application	Heat dissipation for control boards, fans, heat sinks
Product	ThreeBond 3036 Series ThreeBond 3114 Series	Product	ThreeBond 1225 Series ThreeBond 2270 Series
Characteristics	1. Bonds well to a variety of adherend materials 2. Low cure shrinkage 3. High heat resistance	Characteristics	1. High heat dissipation 2. High heat resistance 3. High adhesive performance (TB2270 series)
Cure condition	UV curing	Cure condition	Moisture curing / Heat curing



Liquid crystal display

Application	Affixing of panels and parts	Application	Liquid crystal panel end face coating	Application	Grounding
Product	ThreeBond 1533 Series ThreeBond 1539 Series	Product	ThreeBond 3020B ThreeBond 3027J	Product	ThreeBond 3315F ThreeBond 3331D ThreeBond 3350C
Characteristics	1. Adhesion to different materials 2. Possible curing at 25°C 3. 60°Cx 1 min. until start of reaction (TB1539)	Characteristics	1. High strength of adhesion to glass and resin 2. Black (Optical Density:1.6~/250µm) 3. Deep curability	Characteristics	1. Fast curability 2. Low resistivity (TB 3331D and TB 3350C)
Cure condition	Moisture curing / Heat curing	Cure condition	UV curing	Cure condition	Heat curing / Room temperature dry type
				Application	Assembly of cover panels / touch sensors / display panels
				Product	ThreeBond 1631
				Characteristics	1. Uniform film thickness 2. Flexibility 3. Highly transparent
				Cure condition	UV curing



Battery

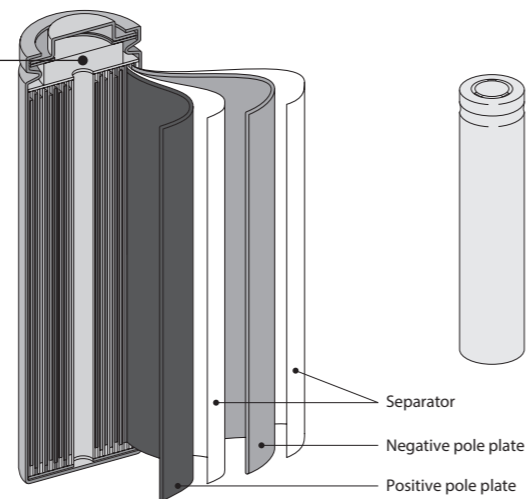
ThreeBond has commercialized a lot of sealants that are applied to the junction surface of various types of flanges, screws, etc. of transportation equipment and industrial equipment to air-tighten and seal the inner fluid. Also in the battery field, the company uses its know-how about sealants to

thereby provide sealants for various types of batteries including alkaline batteries. Furthermore, in recent years, ThreeBond's sealants have been contributing to fuel cells and dye-sensitized solar cells that are paid attention to as the next-generation energy.

Li Ion Secondary Battery / Alkaline Battery

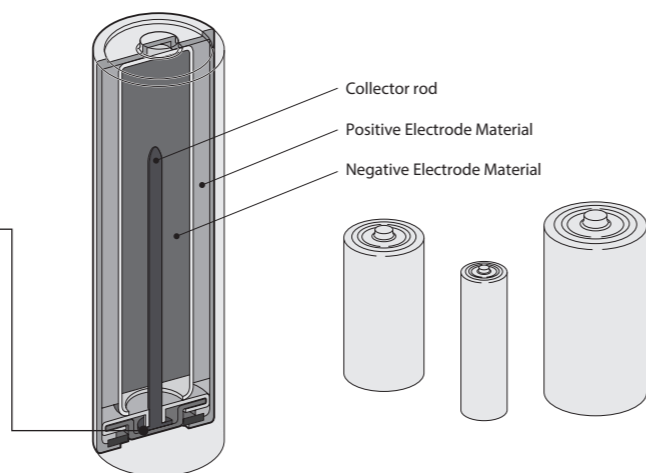
Li Ion Secondary Battery

Application	Liquid electrolyte sealing
Product	ThreeBond 1171 Series
Characteristics	1. Resistance to liquid electrolyte (PC, EC, etc.) 2. Low moisture permeability
Cure condition	Solvent-vaporizing type



Alkaline Battery

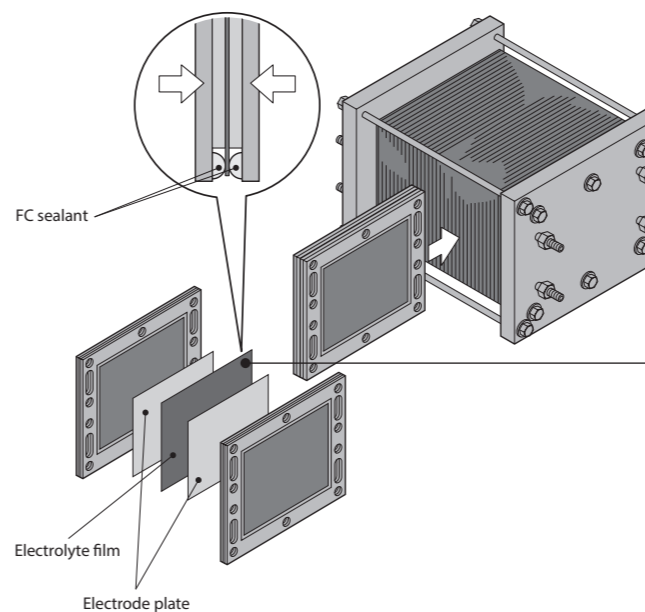
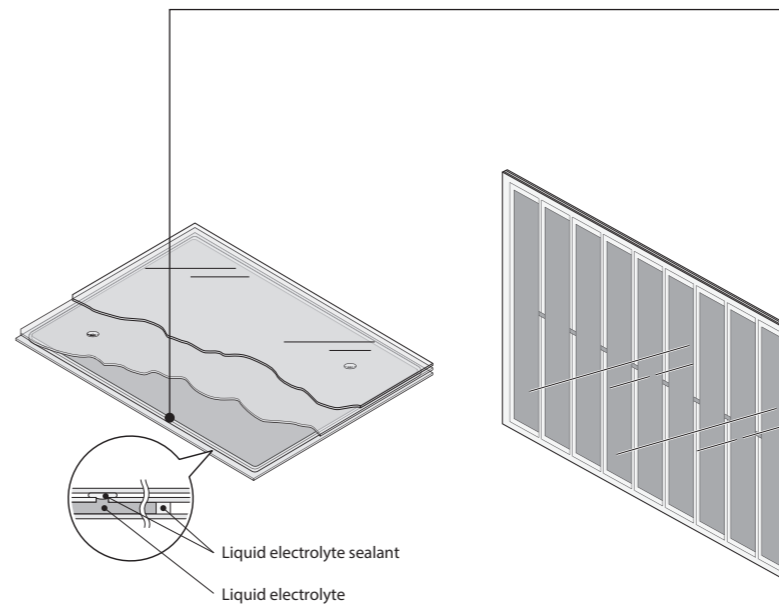
Application	Liquid electrolyte sealing
Product	ThreeBond 1170 Series ThreeBond 1184 Series
Characteristics	1. Resistance to liquid electrolyte (KOH) 2. Low moisture permeability
Cure condition	Solvent-vaporizing type



Dye Sensitized Solar Battery / Fuel Battery

Dye Sensitized Solar Battery

Application	Liquid electrolyte sealing
Product	ThreeBond 3035B ThreeBond 3118
Characteristics	1. Resistance to liquid electrolyte (acetonitrile, GBL, PC, 3-MPN, etc.) 2. Low moisture permeability 3. High reliability
Cure condition	UV curing / UV curing + Heat curing



Fuel Battery Seal

Application	Gas sealing
Product	ThreeBond 1152C ThreeBond 1153 Series
Characteristics	1. Chemical resistance (acid, alkaline) 2. Flexibility
Cure condition	Heat curing

Adhesive selection table by material

Tensile shear bond strength

Curing method	Materials	Product Name	Conditions							
			TB1220G	TB2082C	TB2087	TB2088E	TB3921/TB3926	TB3955	TB7737	TB7781
At normal temperature	AL	MPa	25°Cx24h							
	SUS304		1.0	12.8	3.7	3.1	1.3	2.0	20.4	14.9
	Ni		1.0	20.4	15.4	9.4	18.2	6.2	18.2	12.2
	Cu		2.7	14.6	13.6	10.4	17.1	3.5	26.8	13.3
	LCP		1.0	14.7	15.6	9.9	8.3	2.9	20.3	12.7
	PC		1.0	5.0	4.8	4.2	1.7	2.2	-	1.2
	PPS		1.4	3.8	4.7	3.7	0.4	1.2	6.2	6.9
	PBT		1.3	2.8	2.3	1.8	1.5	1.3	3.2	1.9
	66 Nylon		1.8	2.7	2.7	2.0	1.7	1.4	2.4	4.3
	Glass		1.3	3.8	4.9	2.6	2.1	2.3	11.9	13.1

Curing method	Materials	Product Name	Conditions								
			TB1354	TB1357K	TB1533	TB1533F	TB1535	TB1535B	TB1535C	TB1535D	TB1537
At normal temperature	AL	MPa	25°Cx24h				23°Cx50%RHx168h (7day)				
	SUS304		0.5	0.5	5.7	1.4	5.7	5.0	8.7	3.9	0.8
	Ni		5.0	5.9	4.5	3.3	4.5	4.1	5.7	3.6	3.8
	Cu		8.6	11.8	4.0	3.8	4.0	4.9	7.4	3.8	4.1
	LCP		6.1	16.1	4.4	3.1	4.4	4.0	5.6	3.5	3.8
	PC		-	-	2.8	2.5	2.8	2.2	2.2	1.8	1.1
	PPS		-	-	3.1	3.9	3.1	2.9	5.5	1.4	2.0
	PBT		-	-	3.0	1.9	3.0	2.2	1.7	3.1	0.8
	66 Nylon		-	-	1.0	2.7	1.0	0.8	0.7	0.7	1.0
	Glass		-	-	3.8	4.0	3.8	3.3	4.0	2.9	3.7

Curing method	Materials	Product Name	Conditions							
			TB1539	TB2202C	TB2206S	TB2212Q	TB2222P	TB2235L	TB2237J	TB2247D
Heating	AL	MPa	60°Cx90min	120°Cx10min	80°Cx30min	80°Cx90min	100°Cx60min	140°Cx30min	120°Cx60min	150°Cx30min
	SUS304		4.3	4.3	5.2	2.5	13.0	12.4	15.0	3.2
	Ni		2.7	15.0	12.2	9.1	25.9	20.3	24.0	28.1
	Cu		2.8	12.1	13.4	9.5	23.1	13.4	25.8	26.4
	LCP		3.3	12.6	11.4	8.1	18.1	17.9	18.0	26.0
	PC		2.2	7.3	6.1	7.8	7.7	6.2	8.0	6.4
	PPS		1.5	1.0	1.1	2.5	1.5	1.9	2.1	2.6
	PBT		1.9	3.7	2.5	2.9	5.5	3.9	5.3	5.2
	66 Nylon		2.4	3.5	3.3	3.9	3.7	5.0	3.7	6.1
	Glass		0.7	4.4	3.6	2.4	6.1	4.2	2.8	3.6

Curing method	Materials	Product Name	Conditions		
			TB2270J	TB2285	TB2296B
Heating	AL	MPa	100°Cx40min	120°Cx60min	80°Cx30min
	SUS304		6.7	4.8	3.9
	Ni		8.8	18.1	18.3
	Cu		5.4	17.7	21.8
	LCP		7.0	15.3	21.3
	PC		8.0	7.3	4.6
	PPS		1.0	1.5	3.1
	PBT		4.0	4.9	2.0
	66 Nylon		4.4	5.1	1.9
	Glass		2.1	5.7	3.0

Curing method	Materials	Product Name	Conditions		
			TB3301W	TB3303G (NEO)	TB3331D
Heating	Au	MPa	120°Cx60min	180°Cx60min	80°Cx60min
	AL		19.2	3.3	16.5
	Cu		2.8	1.8	7.6
	SUS		13.6	2.5	18.3
	Ni		12.1	3.6	13.0

* Chip bond strength (ceramic chip)

Curing method	Materials	Product Name	Conditions							
			TB3013Q	TB3017B	TB3017F	TB3020B	TB3027G	TB3027J	TB3033B	TB3036
UV	AL/Glass	MPa	30kJ/m ² UV			60kJ/m ² UV		30kJ/m ² UV		
	SUS304/Glass		3.2	6.5	3.0	7.0	3.5	0.8	5.5	10.0
	Ni/Glass		4.4	6.8	3.6	8.6	5.7	3.6	7.8	9.4
	Cu/Glass		8.5	7.8	4.2	4.9	5.1	6.4	8.4	7.5
	LCP/Glass		5.4	8.0	4.0	4.2	6.1	3.2	8.8	7.1
	PC/Glass		2.4	5.6	3.3	5.3	4.1	4.0	4.6	5.1
	PPS/Glass		3.6	4.0	2.7	7.1	4.3	6.3	7.5	6.4
	PBT/Glass		2.9	6.3	3.6	3.8	5.8	4.6	5.4	6.6
	66 Nylon/Glass		1.9	4.5	2.7	4.0	4.2	2.9	2.6	3.8
	Glass/Glass		4.6	6.4	3.3	3.2	3.7	4.3	5.8	4.8

Curing method	Materials	Product Name	Conditions								
			TB3036G	TB3056F	TB3062U	TB3065E	TB3074C	TB3114	TB3114J	TB3164D	TB3170B
UV	AL/Glass	MPa	30kJ/m ² UV								
	SUS304/Glass		4.7	0.3	4.7	0.4	2.6	2.5	1.7	-	7.0
	Ni/Glass		6.2	2.7	7.3	7.9	5.4	7.8	4.1	2.6	9.9
	Cu/Glass		7.9	3.7	8.2	9.0	4.7	6.4	4.4	-	10.1
	LCP/Glass		7.4	0.9	8.4	8.6	5.8	5.8	2.6	2.1	10.0
	PC/Glass		4.6	3.1	3.9	4.0	5.5	3.5	5.4	1.4	6.4
	PPS/Glass		4.0	3.6	7.1	8.3	3.9	6.1	2.1	3.1	7.4
	PBT/Glass		5.2	3.6	6.6	5.1	6.1	4.8	4.6	3.4	7.0
	66 Nylon/Glass		3.9	3.1	2.8	2.9	3.9	6.7	4.8	2.4	4.5
	Glass/Glass		6.0	3.7	5.0	7.5	3.0	5.1	1.5	2.9	3.7

* The values shown in the characteristics table are examples from actual measurement values, not guaranteed values.

For Smart Phones and Smart Watches

Product name	Volume	Characteristics
ThreeBond 1225B	250g	White/18Pa-s/Moisture-curable heat-radiating resin 1.59W/m-K
ThreeBond 1225C	250g	Gray/70Pa-s/high reliability heat dissipating resin 2.5W/m-K
ThreeBond 1354D	250g	Blue/For fitting adhesion/1.0Pa-s/With UV curing added
ThreeBond 1357K	250g	Blue/Interview wear/10Pa-s/UV curing imparted, fluorescent agent (blue imparted), low halogen product
ThreeBond 1359G	50g · 250g	Blue/For surface adhesion/23Pa-s/With UV curability added
ThreeBond 1390R	500ml	Blue-greenish transparent/Curing accelerating agent for anaerobic sealing adhesives (ethanol type)
ThreeBond 1530C	150g · 430g	Translucent/100Pa-s/Elastic adhesive/ISO 10993 Compliant
ThreeBond 1535	170g	White/75Pa-s/Elastic adhesive Tin-free product
ThreeBond 1535B	170g	Black/90Pa-s/Elastic adhesive Tin-free product
ThreeBond 1535C	120g	Colorless transparent/30Pa-s/Elastic adhesive Tin-free product
ThreeBond 1535D	150g	Gray/25Pa-s/Elastic adhesive Tin-free product
ThreeBond 1539	100g · 440g	Black/100Pa-s/Single-component elastic adhesive that cures by heat fast at low temperature, plant-based (castor oil) polymer
ThreeBond 1539B	440g	White/100Pa-s/Single-component elastic adhesive that cures by heat fast at low temperature, plant-based (castor oil) polymer
ThreeBond 1631 (30µm~)	1,320mmx200m	Colorless transparent/From 30 µm/UV-curable, flexibility, visible light-transmissive, light resistance
ThreeBond 2206S	30g · 1kg	Black/15Pa-s/Curing at 80°C for 30 min, low halogen product
ThreeBond 2296B	10g	Black/18.5Pa-s/Curing at 60°C for 30 min, low-halogen product
ThreeBond 3020B	30g	Pale yellow/3.5Pa-s/Formation of black cured product after irradiation with ultraviolet (365 nm), Low halogen product
ThreeBond 3027G	1kg	Light yellow/1.8Pa-s/For FPC reinforcement, flexibility, low water absorption
ThreeBond 3027J	1kg	Black/2.4Pa-s/Light blocking type, fast-curing type, low halogen product
ThreeBond 3062U	250g	Light yellow to brown/1.0Pa-s/Flexibility, adhesion of a different type of material to another
ThreeBond 3065E	250g	Light yellowish transparent/7.0Pa-s/For surface adhesion (3 sec when set in combination with ThreeBond 1390F)
ThreeBond 3074C	30g	Colorless/7.0Pa-s/non yellowing ultraviolet curable resin, refractive index 1.517, low halogen type
ThreeBond 3081L	370g	Gray white/70Pa-s/elastic sealant, heat resistance/good cold resistance, suitable for UV-CIPG applications
ThreeBond 3081P	350g	Light yellow/400Pa-s/elastic sealant, heat resistance/good cold resistance, suitable for UV-CIPG applications
ThreeBond 3170B	50g	Light yellow/1.8Pa-s/For bonding optical components, visible light-curable, acrylic resin-based
ThreeBond 3303G (NEO)	50g	Single-component heat-curable adhesive/For quartz oscillators, Au electrode, Ag electrode, good adhesion, slow-drying type, silicone-based
ThreeBond 3303Z	40g	Single-component heat-curable adhesive/For quartz oscillators, Extra thin coatability, silicone type
ThreeBond 3304D	50g	Single-component heat-curable adhesive/For quartz oscillators, Extra thin coatability, silicone type
ThreeBond 3331D	10g	Silver/25Pa-s/one-component thermosetting conductive resin, cured at 80°C for 60 minutes, low halogen product
ThreeBond 3350C	30g	Conductive silver paint/room temperature dry type, low resistance type

For Camera Modules

Product name	Volume	Characteristics
ThreeBond 2206S	30g · 1kg	Black/15Pa-s/Curing at 80°C for 30 min, low halogen product
ThreeBond 2296B	10g	Black/18.5Pa-s/Curing at 60°C for 30 min, low-halogen product
ThreeBond 3020B	30g	Pale yellow/3.5Pa-s/Formation of black cured product after irradiation with ultraviolet (365 nm), Low halogen product
ThreeBond 3074C	30g	Colorless/7.0Pa-s/non yellowing ultraviolet curable resin, refractive index 1.517, low halogen product
ThreeBond 3168	500g	White/15Pa-s/damper agent
ThreeBond 3170B	50g	Light yellow/1.8Pa-s/For bonding optical components, visible light-curable, acrylic type
ThreeBond 3331D	10g	Silver/25Pa-s/one-component thermosetting conductive resin, cured at 80°C for 60 minutes, low halogen product

For Digital Cameras

Product name	Volume	Characteristics
ThreeBond 1225B	250g	White/18Pa-s/Moisture-curable heat-radiating resin 1.59W/m-K
ThreeBond 1225C	250g	Gray/70Pa-s/high reliability heat dissipating resin 2.5W/m-K
ThreeBond 1533	150g	White/100Pa-s/Elastic adhesive, DBT-free product
ThreeBond 1533C	150g	Translucent/100Pa-s/Elastic adhesive, DBT-free product
ThreeBond 1533D	150g	Gray/22Pa-s/Elastic adhesive, DBT-free product
ThreeBond 1533F	150g	Gray/180Pa-s/Elastic adhesive, DBT-free product
ThreeBond 1535	170g	White/75Pa-s/Elastic adhesive, Tin-free product
ThreeBond 1535C	120g	Colorless transparent/30Pa-s/Elastic adhesive, Tin-free product
ThreeBond 2955P	250g	Gray/120Pa-s/Moisture-curable heat-radiating resin 4.8W/m-k
ThreeBond 2955Q	250g	Gray/103Pa-s/Moisture-curable heat-radiating resin 4.5W/m-k
ThreeBond 3017D	250g	White/13Pa-s/Lens fixing, soft type, speedy curing, LED-curable, low-halogen product
ThreeBond 3017E	250g	White/25Pa-s/Good adhesion to materials difficult to bond, LED-curable, low-halogen product
ThreeBond 3017F	250g	White/7.5Pa-s/Good adhesion to materials difficult to bond, LED-curable, low-halogen product
ThreeBond 3020B	30g	Pale yellow/3.5Pa-s/Formation of black cured product after irradiation with ultraviolet (365 nm), low halogen product
ThreeBond 3030	330ml · 1kg	Milky white/16.5Pa-s/for bonding optical components, flexible
ThreeBond 3033B	333ml	Milky white/35Pa-s/Flexibility, heat cycle resistance, high adhesive strength
ThreeBond 3036	500g	Gray white/35Pa-s/for bonding optical components, low linear expansion, acrylic type
ThreeBond 3036G	250g	White/29Pa-s/Suitable for adhesion to various plastics, LED-curable
ThreeBond 3074C	30g	Colorless/7.0Pa-s/non yellowing ultraviolet curable resin, refractive index 1.517, low halogen product
ThreeBond 3114	250g	Gray white/26Pa-s/for bonding optical components, low curing shrinkage, epoxy type
ThreeBond 3114J	1kg	White/25Pa-s/for bonding optical components, low curing shrinkage, heat resistance LED-curable, epoxy type
ThreeBond 3164D	330ml	Pale white/10Pa-s/UV- and moisture-curable silicone, potting agent
ThreeBond 3168	500g	White/15Pa-s/damper agent

For Surveillance Camera

Product name	Volume	Characteristics
ThreeBond 1225B	250g	White/18Pa-s/Moisture-curable heat-radiating resin 1.59W/m-K
ThreeBond 2907	1kg	Colorless to light yellow/one-component water repellent coating agent, drying time within 90 minutes
ThreeBond 3020B	30g	Pale yellow/3.5Pa-s/Formation of black cured product after irradiation with ultraviolet (365 nm), low halogen product
ThreeBond 3030	330ml · 1kg	Milky white/16.5Pa-s/for bonding optical components, flexible
ThreeBond 3033B	333ml	Milky white/35Pa-s/flexibility, heat cycle resistance, high adhesive strength
ThreeBond 3036	500g	Gray white/35Pa-s/for bonding optical components, low linear expansion, acrylic type
ThreeBond 3036G	250g	White/29Pa-s/Suitable for adhesion to various plastics, LED-curable
ThreeBond 3074C	30g	Colorless/7.0Pa-s/non yellowing ultraviolet curable resin, refractive index 1.517, low halogen type
ThreeBond 3081L	370g	Gray white/70Pa-s/elastic sealing agent, heat resistance/good cold resistance, suitable for UV-CIPG applications, acrylic type
ThreeBond 3081P	350g	Light yellow/400Pa-s/elastic sealant, heat resistance/good cold resistance, suitable for UV-CIPG applications, acrylic type
ThreeBond 3114	250g	Gray white/26Pa-s/for bonding optical components, low curing shrinkage, epoxy type
ThreeBond 3114J	1kg	White/25Pa-s/for bonding optical components, low curing shrinkage, heat resistance, LED-curable, epoxy type
ThreeBond 3166	330g	Blue/330Pa-s/elastic sealant, good heat resistance/moisture resistance, suitable for UV-CIPG applications, silicone type
ThreeBond 3170B	50g	Pale yellow/1.8Pa-s/for bonding optical components, visible light curing property, acrylic type
ThreeBond 3331D	10g	Silver/25Pa-s/one-component thermosetting conductive resin, cured at 80°C for 60 min, low halogen product

For Car Mounted Display / Camera

Product name	Volume	Characteristics
ThreeBond 1225B	250g	White/18Pa-s/Moisture-curable heat-radiating resin 1.59W/m-K
ThreeBond 1225C	250g	Gray/70Pa-s/high reliability heat dissipating resin 2.5W/m-K
ThreeBond 1530C	150g · 430g	Translucent/100Pa-s/Elastic adhesive/ISO 10993 Compliant
ThreeBond 1535	170g	White/75Pa-s/Elastic adhesive Tin-free product
ThreeBond 1535B	170g	Black/90Pa-s/Elastic adhesive Tin-free product
ThreeBond 1535C	120g	Colorless transparent/30Pa-s/Elastic adhesive Tin-free product
ThreeBond 1535D	150g	Gray/25Pa-s/Elastic adhesive Tin-free product
ThreeBond 1539	100g · 440g	Black/100Pa-s/Single-component elastic adhesive that cures by heat fast at low temperature, plant-based (castor oil) polymer
ThreeBond 1539B	440g	White/100Pa-s/Single-component elastic adhesive that cures by heat fast at low temperature, plant-based (castor oil) polymer
ThreeBond 1631 (30µm~)	1,320mmx200m	Colorless transparent/From 30 µm/UV-curable, flexibility, visible light-transmissive, light resistance
ThreeBond 2206S	30g · 1kg	Black/15Pa-s/Curing at 80°C for 30 min, low halogen product
ThreeBond 2270J	1kg	White/150Pa-s/Single-component heat-curing heat dissipating resin 4.2W/m-k, heat resistance, high adhesive strength
ThreeBond 3020B	30g	Pale yellow/3.5Pa-s/Formation of black cured product after irradiation with ultraviolet (365 nm), Low halogen product
ThreeBond 3027G	1kg	Pale yellow/1.8Pa-s/For FPC reinforcement, flexibility, low water absorption
ThreeBond 3027J	1kg	Black/2.4Pa-s/Light blocking type, fast-curing type, low halogen product
ThreeBond 3036	500g	Gray white/35Pa-s/for bonding optical components, low linear expansion, acrylic type
ThreeBond 3036G	250g	White/29Pa-s/Suitable for adhesion to various plastics, LED-curable
ThreeBond 3114	250g	Gray white/26Pa-s/for bonding optical components, low curing shrinkage, epoxy type
ThreeBond 3114J	1kg	White/25Pa-s/for bonding optical components, low curing shrinkage, heat resistance, LED-curable, epoxy type
ThreeBond 3315F	1kg	Conductive carbon resin/Low temperature-curable, spot bonding, flexibility
ThreeBond 3331D	10g	Silver/25Pa-s/one-component thermosetting conductive resin, cured at 80°C for 60 min, low halogen product
ThreeBond 3350C	30g	Conductive silver paint/room temperature dry type, low resistance type

For Batteries

Product name	Volume	Characteristics
ThreeBond 1152C	330ml	Milky white/650Pa-s/Heat-curable olefin-based sealant/Gas barrier property/Good moisture permeability
ThreeBond 1153C	330ml	Gray/1700Pa-s/Heat-curable olefin-based sealant/Gas barrier property/Good moisture permeability
ThreeBond 1153D	330ml	Gray/560Pa-s/Heat-curable olefin-based sealant/Gas barrier property/Good moisture permeability
ThreeBond 1171F	15kg	Black/1.8Pa-s/Lithium battery sealant
ThreeBond 1171G	1L	Colorless transparent/600mPa-s/Lithium battery sealant *Scheduled to be released in 2019
ThreeBond 1184E	1kg	Black/8.5Pa-s/Black of ThreeBond 1184
ThreeBond 3035B	100g	White/51Pa-s/Dye-sensitized solar cell sealant
ThreeBond 3118	100g	White/86Pa-s/Dye-sensitized solar cell sealant

For General Purposes Related to Electrics and Electronics

Product name	Volume	Characteristics
ThreeBond 1220G	100g	Milky white/65Pa-s/alcohol-releasing type
ThreeBond 1234B	330ml	Gray/400Pa-s/Single-component heat-curable silicone, high adhesion, high durability
ThreeBond 1537	200g	White/55Pa-s/Elastic adhesive/UL94 V-0 certified product
ThreeBond 1771E	50g	Yellow/2.0mPa-s/Light curability added type instantaneous adhesive
ThreeBond 1773E	20g · 500g	Yellow/150mPa-s/Light curability added type instantaneous adhesive
ThreeBond 2081D	200g SET	Main agent: Light yellowish white/Curing agent: Brownish transparent, for bonding soft vinyl chloride materials
ThreeBond 2082C	200g SET	Main agent: White/Curing agent: Brownish transparent, for high shearing adhesion
ThreeBond 2086M	50ml SET 200g SET	Main agent: Colorless and transparent/Curing agent: Light yellowish transparent, low-viscosity fast-curing type
ThreeBond 2087	90g SET	Main agent: Light yellow/Curing agent: Light yellow, normal-temperature-curing type for structures
ThreeBond 2088E	100g SET	Main agent: Yellowish transparent/Curing agent: Yellowish brown and transparent, High thermal adhesiveness
ThreeBond 2202C	1kg	White/27Pa-s/Low-temperature curable type/ISO 10993 Compliant
ThreeBond 2212B	1kg	Black/25Pa-s/Curing at 80°C for 30 min, for potting
ThreeBond 2212C	1kg	Reddish brown/25Pa-s/Curing at 80°C for 30 min, for potting
ThreeBond 2212Q	1kg	Black/15Pa-s/Low-halogen product
ThreeBond 2222P	1kg	Black/45Pa-s/Curing at 100°C for 60 min, impact-resistant type
ThreeBond 2235L	1kg	Black/80Pa-s/Curing at 140°C for 30 min, high heat resistance, low linear expansion
ThreeBond 2237J	1kg	White/115Pa-s/Curing at 120°C for 60 min, high heat resistance, high adhesive strength
ThreeBond 2247D	3kg	Milky white/45Pa-s/Curing at 150°C for 30 min, high peel strength
ThreeBond 2285	1kg	Milky white/140Pa-s/Curing at 120°C for 60 min, heat resistance
ThreeBond 3013Q	1kg	Blue/23Pa-s/Potting of electric and electronic components, rubber elasticity, heat resistance, oil resistance
ThreeBond 3017B	500g	Milky white/16Pa-s/Good adhesion to materials difficult to bond, good moisture resistance
ThreeBond 3042B	1kg	Colorless and transparent/500mPa-s/General-use type, good transparency, fast curing
ThreeBond 3042C	250g	Colorless and transparent/1500mPa-s/General-use type, good transparency, fast curing
ThreeBond 3056F	350g	Greenish transparent/6.0Pa-s/With moisture-curability added, suitable for bonding and sealing
ThreeBond 3056K	333ml	Greenish transparent/3.6Pa-s/With moisture-curability added, suitable for bonding and sealing
ThreeBond 3161	330ml	Light yellow/3.0Pa-s/UV- and moisture-curable silicone
ThreeBond 3177	20g	Yellowish transparent/1.2Pa-s/With moisture-curability added, moisture resistance, good heat resistance, ISO 10993 Compliant
ThreeBond 3301F	200g	Single-component heat-curable adhesive/diluted-solvent type of ThreeBond 3301E, epoxy-based
ThreeBond 3301W	200g	Single-component heat-curable adhesive/Silver/35Pa-s/Curing at 120°C for 60 min
ThreeBond 3380	60g SET	Two-component normal-temperature-curable adhesive/Silver paste, epoxy-based
ThreeBond 3381	500g SET	Two-component normal-temperature-curable adhesive/Nickel paste, acrylic resin-based
ThreeBond 3921	250g · 1kg	Red/5.1Pa-s/Less-odor acrylic resin-based structural adhesive main agent, good adhesion to a wide variety of materials
ThreeBond 3923	1kg	Pale white/3.0Pa-s/Honeymoon-type acrylic resin-based structural adhesive main agent, good heat resistance
ThreeBond 3926	250g · 1kg	Blue/5.1Pa-s/Less-odor acrylic resin-based structural adhesive curing agent, good adhesion to a wide variety of materials
ThreeBond 3928	1kg	Green/3.0Pa-s/Honeymoon-type acrylic resin-based structural adhesive curing agent, good heat resistance
ThreeBond 3955	50ml SET	Agent A, Agent B/Two-component low-elasticity fast-curing acrylic resin/high heat resistance, high moisture resistance
ThreeBond 7721	20g	Colorless to light yellowish transparent/5.0mPa-s/Non-whitening type
ThreeBond 7737	20g	Light yellowish transparent/2.0Pa-s/Extremely high peel strength, impact-resistant type
ThreeBond 7738	20g	Light yellowish transparent/5.0Pa-s/Extremely high peel strength, impact-resistant type
ThreeBond 7741	20g	Light yellowish transparent/2.0mPa-s/Standard type
ThreeBond 7781	20g	Light yellowish transparent/2.0mPa-s/Extremely-fast-curing type
ThreeBond 7782	20g	Light yellowish transparent/15mPa-s/Extremely-fast-curing type
ThreeBond 7784	20g	Light yellowish transparent/160mPa-s/Extremely-fast-curing type
ThreeBond 7785	20g	Light yellowish transparent/500mPa-s/Extremely-fast-curing type
ThreeBond 7786	20g	Light yellowish transparent/1.0Pa-s/Extremely-fast-curing type
ThreeBond 7789	20g	Light yellowish transparent/Gel/Extremely-fast-curing type
ThreeBond 7796	100ml	Curing accelerating agent/Faint-odor type
ThreeBond 7797	100ml	Multi-primer for materials difficult to bond

TB1100, 1200 series

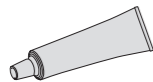
- A lineup of devices that can handle small-amount and large-amount sealants and adhesives is available.
- They are suitable for the bead application of solvent-volatilization-type and moisture-curable-type liquid gaskets.
- Dispensers that can apply a fixed quantity of a sealant and an adhesive without waste are available.
- A unit that can reduce the amount of a remaining liquid agent in a pail is available as an option. (Some conditions must be met.)

TB1300 series

- Lineup of products for improvement of productivity and workability
- The RTM and RTM-H Series enable products that meet customer requirements to be designed and manufactured.

* RTM...Rotary Transfer Motor
* RTA-H...Rotary Transfer Air-motor by Hand

Tube



Air gun for tubes (PG-100T)

When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.

Individual catalog number #1



Tank for tubes Dispenser for tanks (Minicoater C5)

The amount of injection is adjusted by injection time and tank pressure. Automatic application by the machine is possible.

Individual catalog number #2

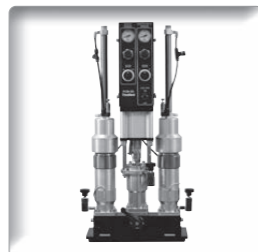
Cartridge



Cartridge pump (ACB-20) Pen-shaped manual open/close valve (pencil gun)

This dispenser is excellent in high-speed injection and operability as the result of combination of a high pressure-feeding cartridge pump and a pencil gun. Automatic application by the machine is impossible.

Individual catalog number #5



Cartridge pump (PCB-20)

This is a high-pressure feeding pump for automatic application. When it is combined with the robot, uniform linear application is possible. Automatic application by the machine is possible.

Individual catalog number #6



Liquid agent injection valve dedicated for surface application. RV-SN Series

This is a liquid agent injection valve for applying an agent in a surface or belt form. Automatic application by the machine is possible.

Individual catalog number #30

1-kg can



Tank for a 1-kg can (PT-01) Pen-shaped manual open/close valve (pencil gun)

This dispenser is for a low-viscosity liquid agent. When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.

Individual catalog number #3



Tank for a 1-kg can (PT-01) Needle-type automatic open/close valve (HPNV-50) Controller for the pressure feed section (Coater S4) Desktop three-orthogonal-axis robot (RT7-20)

This device pressure-feeds a liquid agent from a tank and applies the agent by controlling the open/close valve of the nozzle section. When the dispenser is combined with the robot, it applies the agent appropriately to a programmed position. Automatic application by the machine is possible.

Individual catalog number #4

Pail



Reciprocating pump for pails (AP-30) High-pressure flow gun (H-FLG)

This dispenser is excellent in high-speed injection and operability as the result of combination of a high-pressure feeding pump for pails and a high-pressure flow gun. Automatic application by the machine is impossible.

Individual catalog number #7



Single-acting pump for pails (PBII-30/45)

This is a high-pressure feeding pump for automatic application. When it is combined with the robot, uniform linear application is possible. Automatic application by the machine is possible.

Individual catalog number #8

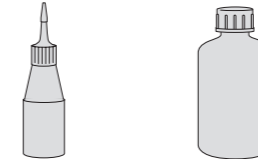


Pump for pails (PBIII) Constant-speed injection head (fixed-quantity booster) Desktop three-orthogonal-axis robot (RT7-30)

When a high-pressure feeding pump for automatic application and a constant-speed injection head are combined with the robot, high-precision and uniform linear application that is not affected by changes in the environmental temperature is possible. Automatic application by the machine is possible.

Individual catalog number #9

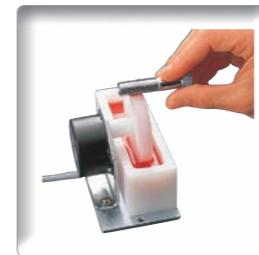
Bottle



Dispenser for a syringe (Minicoater C5)

The amount of injection is adjusted by injection time and air pressure. Automatic application by the machine is possible.

Individual catalog number #11



Transcription-type simple coating machine (Coater R)

Push the screw bolt section lightly against the circumference of the rotating rotor and coat the screw section. Automatic application by the machine is impossible.

Individual catalog number #10



Automatic rotary coating machine (RTM2)

This is a rotary coating machine for coating the inside of a cylinder with a liquid agent automatically. Automatic application by the machine is possible.

Individual catalog number #13



Manual rotary coating machine (RTA-H)

This is a rotary coating machine for coating the inside of a cylinder with a liquid agent manually. Automatic application by the machine is impossible.

Individual catalog number #12

TB1500 series

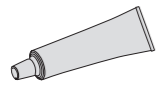
- Lineup of products for improvement of productivity and workability
 - Applicators suitable to a wide range of adhesives, such as solvent-volatilization type, moisture-curable type, and aqueous pressure-sensitive type, can be selected.

TB1700, 7700 series

- Application of an instantaneous adhesive that is difficult to handle is automated, which enables a work environment and application quality to be improved.

*TDV...Triple Diaphragm Valve

Tube



Air gun for tubes (PG-100T)
 When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.
 Individual catalog number #1



Tank for tubes Dispenser for tanks (Minicoater C5)
 The amount of injection is adjusted by injection time and tank pressure. Automatic application by the machine is possible.
 Individual catalog number #2

Cartridge



Air gun for tubes (PG-100C)
 When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is possible.
 Individual catalog number #1

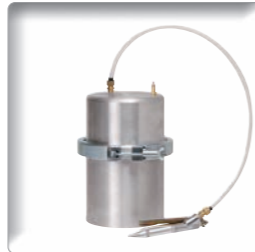
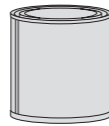


Cartridge-type tank (LVCT-AC) Diaphragm-type automatic open/close valve (HPNV-50)
 Controller for the pressure feed section (coater S4)
 Desktop three-orthogonal-axis robot (RT7-20)
 It pressure-feeds a liquid agent from the cartridge and controls the open/close valve to apply the agent. When the controller is combined with the robot, it apply the agent to a programmed position. Automatic application by the machine is possible.
 Individual catalog number #15



Liquid agent injection valve dedicated for surface application. RV-SN Series
 This is a liquid agent injection valve for applying an agent in a surface or belt form. Automatic application by the machine is possible.
 Individual catalog number #30

1-kg can



Tank for a 1-kg can (PT-01) Pen-shaped manual open/close valve (pencil gun)
 This dispenser is for a low-viscosity liquid agent. When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.
 Individual catalog number #3



Tank for a 1-kg can (PT-01) Needle-type automatic open/close valve (HPNV-50)
 Controller for the pressure feed section (Coater S4)
 Desktop three-orthogonal-axis robot (RT7-20)
 This device pressure-feeds a liquid agent from a tank and applies the agent by controlling the open/close valve of the nozzle section. When the dispenser is combined with the robot, it applies the agent appropriately to a programmed position. Automatic application by the machine is possible.
 Individual catalog number #4

Pail



TB 1530 exclusive power booster (DBP-40)
 This is a diaphragm pump-method power booster without a sliding part where it comes in contact with the liquid. Therefore, it is possible to stream a liquid agent stably without any sticking or resulting increases in resistance.
 Individual catalog number #32

Bottle



Tubing pump (TF300mp-S)
 This dispenser is suitable to a low-viscosity minute-amount injection. Automatic application by the machine is impossible.
 Individual catalog number #16



Tank with remaining amount detection (PT-01E) Minute-quantity and fixed-quantity valve TDV Dedicated controller
 This is a highly durable and stable dispenser for injecting a minute amount of agent. Automatic application by the machine is possible.
 Individual catalog number #17

TB2000 & 2100, 2200 series

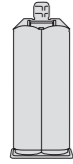
- Lineup of products for improvement of productivity and workability
- Applicators are available for each of the single-component type and the two-component type.
- The two-component type can be set, according to a mixing ratio.

TB3000, 3100 series

- UV-curing type, anaerobic-curing type, and moisture-curing type
- Applicators for each of the above types are available.
- Auxiliary equipment needed for the process from application to curing is available.
- Equipment suitable for CIPG application (design of a special-purpose machine)

* CIPG...Cured in Place Gasket

Twin cartridge

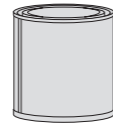


Hand gun for two-component liquid cartridge

This hand gun mixes a two-component liquid agent with its static nozzle and injects it. Automatic application by the machine is impossible.

Individual catalog number #18

1-kg can



Dispenser for a syringe (Minicoater C5)

The amount of injection is adjusted by injection time and air pressure. Automatic application by the machine is possible.

Individual catalog number #11



Tank for a 1-kg can (PT-01) Pen-shaped manual open/close valve (pencil gun)

This dispenser is for a low-viscosity liquid agent. When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.

Individual catalog number #3



Tank for a 1-kg can (PT-01) Needle-type automatic open/close valve (HPNV-50) Controller for the pressure feed section (Coater S4) Desktop three-orthogonal-axis robot (RT7-20)

This device pressure-feeds a liquid agent from a tank and applies the agent by controlling the open/close valve of the nozzle section. When the dispenser is combined with the robot, it applies the agent appropriately to a programmed position. Automatic application by the machine is possible.

Individual catalog number #4



One-component dispenser with a gear pump/ Two-components-mixing dispenser

This dispenser pressure-feeds an agent with its gear pump. It pressure-feeds each of two liquids with the gear pump and mix them with the dynamic mixer to inject the mixture. This is manufactured, according to specifications, such as a mixing ratio and injection speed. Automatic application by the machine is possible.

Individual catalog number #19



Liquid agent injection valve dedicated for surface application. RV-SN Series

This is a liquid agent injection valve for applying an agent in a surface or belt form. Automatic application by the machine is possible.

Individual catalog number #30



Pump for 1-kg cans PH1-20

This is a pump for high-pressure feeding of liquid agents loaded in a 1 kg metal can. 1 kg cans of liquid agent can be opened with a can opener and set to the pump without transferring liquid.

Individual catalog number #35

Pail



Reciprocating pump for pails (AP-30) High-pressure flow gun (H-FLG)

This dispenser is excellent in high-speed injection and operability as the result of combination of a high-pressure feeding pump for pails and a high-pressure flow gun. Automatic application by the machine is impossible.

Individual catalog number #7



Single-acting pump for pails (PBIII-30/45)

This is a high-pressure feeding pump for automatic application. When it is combined with the robot, uniform linear application is possible. Automatic application by the machine is possible.

Individual catalog number #8

Syringe

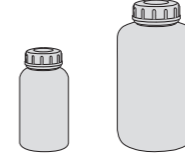


Dispenser for a syringe (Minicoater C5)

The amount of injection is adjusted by injection time and air pressure. Automatic application by the machine is possible.

Individual catalog number #11

250-g/1-kg bottle



Tank for a 1-kg can (PT-01) Pen-shaped manual open/close valve (pencil gun)

This dispenser is for a low-viscosity liquid agent. When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.

Individual catalog number #3

Cartridge



Air gun for tubes (PG-100C)

When the lever of the gun is gripped, an agent is injected. Automatic application by the machine is impossible.

Individual catalog number #1



Cartridge-type tank (LVCT-AC) Diaphragm-type automatic open/close valve (HPNV-50) Controller for the pressure feed section (Coater S4) Desktop three-orthogonal-axis robot (RT7-20)

It pressure-feeds a liquid agent from the cartridge and controls the open/close valve to apply the agent. When the controller is combined with the robot, it apply the agent to a programmed position. Automatic application by the machine is possible.

Individual catalog number #15



Liquid agent injection valve dedicated for surface application. RV-SN Series

This is a liquid agent injection valve for applying an agent in a surface or belt form. Automatic application by the machine is possible.

Individual catalog number #30

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