



Three Bond International, Inc. Technical Data Sheet

TB1530B **ONE COMPONENT, MOISTURE CURING, ELASTOMERIC ADHESIVE**

Information

TB1530B is a one-component, non-solvent and moisture curing, elastomeric adhesive. This adhesive cures rapidly upon exposure to moisture in the air forming a tough elastomer over time. TB1530B provides excellent adhesion to most substrates without the use of a primer. Additionally, TB1530B is an environmentally friendly adhesive: odor-free, solventless, and isocyanate free.

Applications

TB1530B is a multipurpose adhesive for various materials: sealing, casting and potting of metal, plastic, wood etc. Unlike conventional adhesives, TB1530B has a tacky stage after exposure to moisture for approximately 7 minutes in ambient conditions. During this stage TB1530B can act as a pressure-sensitive adhesive without the aid of jigs for fastening. TB1530B is free of low-molecular cyclic siloxanes making it more desirable than silicones for electronic applications.

Typical Properties

1. Uncured Material

Property	Units	Value	Method
Main Component	-	Silyl-Ended Special Polymer	-
Appearance		Black Paste	3TS-201-02
Viscosity (20 rpm)	Pa•s (P)	110(1100)	3TS-210-02
Thixotropic Index (2 rpm / 20 rpm)	-	4.1	3TS-211-02
Specific gravity	-	1.31	3TS-213-02
Tack Free Time	Minute	7	-

2. Cured Material (Condition: 23°C × 50% R.H. × 7 days)

Item	Unit	Value	Method
Tensile Strength	MPa(kgf/cm ²)	3.0(31)	3TS-320-01
Elongation	%	380	3TS-320-01
Hardness	JIS A	48	3TS-215-01

3. Lap Shear Strength (MPa(kgf/cm²)) (3TS-301-13)

(Condition: 23°C × 50% R.H. × 7 days)

Substrate	Value	Failure Mode
Aluminum	4.4(45)	CF ¹
Steel	4.1(41)	CF ¹
Acryl	3.3(34)	CF ¹
PPO	3.6(37)	CF ¹
ABS	3.5(36)	CF ¹
Nylon 66	3.4(35)	CF ¹
PC	3.8(38)	CF ¹
Polystyrene	2.9(29)	AF ²
Phenol Resin	3.6(37)	CF ¹
PPS	1.2(13)	AF ²
PET	2.3(24)	CF ¹
Plywood	3.3(34)	CF ¹

1.) CF – Cohesive failure. 2.) AF – Adhesive failure. 3.) SF- Substrate failure

4. T - Peel Strength (kN/m(kgf/25mm)) (3TS-304-23)

(Condition: 23°C × 50% R.H. × 7 days, open time 5 minutes)

Substrate	Value	Failure Mode
Aluminum	2.8(7.2)	CF ¹
Canvas	1.5(3.8)	CF ¹
NBR	1.5(3.8)	CF ¹
CR	1.6(4.0)	CF ¹
SBR	1.4(3.4)	CF ¹
EPDM	1.4(3.4)	CF ¹
Urethane Rubber	3.5(8.9)	CF ¹
Fluorine Rubber	2.1(5.5)	CF ¹
IIR	1.2(3.1)	CF ¹
Silicone Rubber	0.75(1.9)	SF ³

These are typical properties and not product specifications.