



Three Bond International, Inc. Technical Data Sheet

TB1530C ONE COMPONENT, MOISTURE CURING, ELASTOMERIC ADHESIVE

Information

TB1530C 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. TB1530C provides excellent adhesion to most substrates without the use of a primer. Additionally, TB1530C is an environmentally friendly adhesive: odor-free, solventless, and isocyanate free.

Applications

TB1530C is a multipurpose adhesive for various materials: sealing, casting and potting of metal, plastic, wood etc. Unlike conventional adhesives, TB1530C has a tacky stage after exposure to moisture for approximately 7 minutes in ambient conditions. During this stage TB1530C can act as a pressure-sensitive adhesive without the aid of jigs for fastening. TB1530C 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	-	Transparent Paste	3TS-201-02
Non-volatile content (80°C 2 hrs.)	%	98	3TS-217-02
Viscosity (20 rpm)	Pa s (P)	100(1000)	3TS-210-02
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)	4.1(42)	3TS-320-01
Elongation	%	200	3TS-320-01
Hardness	JIS A	55	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	4.3(44)	CF ¹
Steel (SPCC-SB)	3.5(36)	CF ¹
Acryl	3.8(39)	CF ¹
PPO	4.7(48)	CF ¹
ABS	2.4(24)	CF ¹
Nylon 66	3.2(33)	CF ¹
PC	4.5(46)	CF ¹
Polystyrene	2.5(26)	AF ²
Phenol Resin	4.3(44)	CF ¹
PPS	1.3(13)	AF ²
PBT	1.1(11)	AF ²
Plywood	4.0(41)	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	1.9(5.0)	CF ¹
Canvas	1.6(4.2)	CF ¹

These are typical properties and not product specifications.