

## Reltek BONDiT™ B-45 Adhesive, Sealant & Coating System

Category : Polymer , Adhesive , Thermoset

### Material Notes:

**Key Properties:** Excellent adhesive for low surface energy plastics without primer. Used in potting, painting and protective coating applications. Excellent thermal and mechanical shock resistance. Ease of use. **Applications:** Flexible to 130% elongation, good chemical resistance. Bonds to most plastics, rubber, polyurethane, metals, ceramic and concrete. Tough, flexible, chemically resistant, non-blush clear coating with medium gloss finish. Potting compound alternative to castable polyurethanes, particularly for electrical cable/connector/transducer termination. Excellent for electrical and electronic applications as protective encapsulate against very wide range of environmental exposures, particularly moisture and sea water. Can be applied to oily surfaces. Will cure underwater. Ambient cure 24 hours or 3 hours at 100°C for full cure.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Reltek-BONDiT-B-45-Adhesive-Sealant-Coating-System.php](http://www.lookpolymers.com/polymer_Reltek-BONDiT-B-45-Adhesive-Sealant-Coating-System.php)

Physical Properties	Metric	English	Comments
Oil Absorption	<= 1.0 %	<= 1.0 %	60 days ambient, Isopar M
Water Absorption	<= 1.0 %	<= 1.0 %	90 days ambient DI water
Viscosity	1500 cP	1500 cP	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	9.804 MPa	1422 psi	Post Cure 180°F, 24h
Tensile Strength, Ultimate	9.915 MPa	1438 psi	Peak; Post Cure 180°F, 24h
Tensile Strength, Yield	9.915 MPa	1438 psi	Post Cure 180°F, 24h
Elongation at Break	130 %	130 %	Post Cure 180°F, 24h
Elongation at Yield	130 %	130 %	Post Cure 180°F, 24h

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	350 °F	
Minimum Service Temperature, Air	-45.6 °C	-50.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	Ambient Set
	720 min	12.0 hour	Ambient, tack free
	1440 min	24.0 hour	Ambient, 97% cure

Processing Properties	240 min Metric	4.00 hour English	Comments
	@Temperature 65.6 °C	@Temperature 150 °F	
Pot Life	30 - 40 min	30 - 40 min	Ambient

Descriptive Properties	Value	Comments
Chemical & Moisture Resistance	2	0=Lowest, 4=Highest
Color	Clear with haze/slight amber	
Flexibility Ranking	4.5	0=Rigid, 5=Highly Flexible

## Contact Songhan Plastic Technology Co.,Ltd.

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