

Reltek BONDiT™ B-481 Adhesive, Sealant & Coating System

Category : Polymer , Adhesive , Thermoset

Material Notes:

Key Properties: High strength and toughness with excellent thermal stability to 400°F. Outstanding chemical resistance. Excellent electrical, and mechanical properties. Ease of use. **Applications:** Encapsulate sensitive instrumentation for chemical isolation, outstanding moisture resistance, ruggedness and flexibility. Suitable for clean room use and direct contact with semiconductors. Very easy to use and very clean two-part system. Superior for coating in marine applications and other harsh environments. Tough, high strength, chemically resistant non-blush clear coating with medium gloss finish. Bonds to most substrates. Can be applied to oily surfaces. Ambient 24 hour or accelerated thermal cure.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Reltek-BONDiT-B-481-Adhesive-Sealant-Coating-System.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 1.0 %	<= 1.0 %	24hrs boiling DI water
Viscosity	2500 cP	2500 cP	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.48 MPa	4566 psi	3 hrs @ 200°F; 2:1 Volume Mix
Tensile Strength, Ultimate	33.05 MPa	4794 psi	Peak; 3 hrs @ 200°F; 2:1 Volume Mix
Tensile Strength, Yield	33.05 MPa	4794 psi	3 hrs @ 200°F; 2:1 Volume Mix
Elongation at Break	12.9 %	12.9 %	3 hrs @ 200°F; 2:1 Volume Mix
Elongation at Yield	9.6 %	9.6 %	3 hrs @ 200°F; 2:1 Volume Mix
Tangent Modulus	623.46 MPa	90425 psi	3 hrs @ 200°F; 2:1 Volume Mix

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	360 min	6.00 hour	Ambient Set
	720 min	12.0 hour	Ambient, tack free
	1440 min	24.0 hour	Ambient, 95% cure
	120 min	2.00 hour	98% cure

Processing Properties	@Temperature 65.6 °C Metric	@Temperature 150 °F English	Comments
Pot Life	40 min	40 min	Ambient

Descriptive Properties	Value	Comments
Chemical & Moisture Resistance	3.5	0=Lowest, 4=Highest
Color	Clear with slight amber	

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