

Devcon Wear Guard (High Load) Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Abrasion-Resistant SystemComments: PuttyData provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Wear-Guard-High-Load-Epoxy.php

Physical Properties	Metric	English	Comments
Density	2.15 g/cc	0.0775 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ASTM D2240
Tensile Strength, Ultimate	29.0 MPa	4210 psi	ASTM D638
Modulus of Elasticity	5.86 GPa	850 ksi	In Tension; ASTM D638
Flexural Yield Strength	49.2 MPa	7140 psi	ASTM D790
Compressive Yield Strength	75.8 MPa	11000 psi	ASTM D695
Adhesive Bond Strength	16.38 MPa	2375 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	32.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.732 W/m-K	5.07 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Maximum Service Temperature, Air	149 $^{\circ}\text{C}$	300 $^{\circ}\text{F}$	Operating Temperature
Shrinkage	0.060 %	0.060 %	During Cure; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	41	41	ASTM D150
Dielectric Strength	13.4 kV/mm	340 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 $^{\circ}\text{C}$	70.0 $^{\circ}\text{F}$	
Pot Life	45.0 min	45.0 min	

Processing Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	Comments
Descriptive Properties			
Coverage per lb.		50 in ²	at 1/4 inch thick
Mix Ratio by Volume		2 to 1	resin:hardener
Mix Ratio By Weight		2 to 1	resin:hardener

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