

ITW Devcon Metal Repair Ceramic Repair Putty, Dark Blue

Category : Polymer , Adhesive , Thermoset

Material Notes:

Information provided by ITW Devcon

Order this product through the following link:

http://www.lookpolymers.com/polymer_ITW-Devcon-Metal-Repair-Ceramic-Repair-Putty-Dark-Blue.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0610 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	Cured; ASTM D2240
Tensile Strength at Break	26.9 MPa	3900 psi	ASTM D638
Modulus of Elasticity	6.21 GPa	900 ksi	ASTM D638
Flexural Strength	44.64 MPa	6475 psi	ASTM D790
Compressive Strength	87.6 MPa	12700 psi	ASTM D695
Adhesive Bond Strength	13.8 MPa	2000 psi	tensile shear; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	30.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	17.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.787 W/m-K	5.45 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	177 $\text{Å}^\circ\text{C}$	350 $\text{Å}^\circ\text{F}$	dry
Shrinkage	0.22 %	0.22 %	Cured; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	41 @Frequency 1000 Hz	41 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	14.6 kV/mm	370 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	960 min	16.0 hour	Functional cure

Processing Properties	Metric	English	Comments
Pot Life	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per pound, in ² @ 1/4" thickness	66	
Mix ratio by volume (Resin:Hardener)	4.3:1	
Mix ratio by weight (Resin:Hardener)	7:1	

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