

ITW Devcon Metal Repair Wear Resistant Epoxy (WR-2), Dark Grey

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-Wear-Resistant-Epoxy-WR-2-Dark-Grey.php

Physical Properties	Metric	English	Comments
Density	1.99 g/cc	0.0719 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	Cured; ASTM D2240
Tensile Strength at Break	29.6 MPa	4300 psi	ASTM D638
Modulus of Elasticity	5.17 GPa	750 ksi	ASTM D638
Flexural Strength	44.8 MPa	6500 psi	ASTM D790
Compressive Strength	67.6 MPa	9800 psi	ASTM D695
Adhesive Bond Strength	15.2 MPa	2200 psi	tensile shear; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	32.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.699 W/m-K	4.84 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	121 $\text{Å}^\circ\text{C}$	250 $\text{Å}^\circ\text{F}$	dry
Shrinkage	0.050 %	0.050 %	Cured; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.3 @Frequency 1000 Hz	6.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	15.7 kV/mm	400 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	56	
Mix ratio (Resin:Hardener)	9:1	
Mix ratio by volume (Resin:Hardener)	4:1	

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