

ITW Devcon Metal Repair Aluminum Putty (F), Aluminum

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-Aluminum-Putty-F-Aluminum.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	Cured; ASTM D2240
Tensile Strength at Break	25.4 MPa	3680 psi	ASTM D638
Modulus of Elasticity	5.52 GPa	800 ksi	ASTM D638
Flexural Strength	46.6 MPa	6760 psi	ASTM D790
Compressive Strength	58.1 MPa	8420 psi	ASTM D695
Adhesive Bond Strength	17.9 MPa	2600 psi	tensile shear; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	52.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	29.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.724 W/m-K	5.02 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	121 $\text{Å}^\circ\text{C}$	250 $\text{Å}^\circ\text{F}$	dry
Shrinkage	0.080 %	0.080 %	Cured; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	21.4 @Frequency 1000 Hz	21.4 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	3.94 kV/mm	100 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	70	
Mix ratio by volume (Resin:Hardener)	4:1	
Mix ratio by weight (Resin:Hardener)	9:1	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China