

ITW Devcon Metal Repair Stainless Steel Putty (ST), 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-Stainless-Steel-Putty-ST-Grey.php

Physical Properties	Metric	English	Comments
Density	2.23 g/cc	0.0806 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	Cured; ASTM D2240
Tensile Strength at Break	23.0 MPa	3340 psi	ASTM D638
Modulus of Elasticity	5.52 GPa	800 ksi	ASTM D638
Flexural Strength	36.4 MPa	5280 psi	ASTM D790
Compressive Strength	57.9 MPa	8400 psi	ASTM D695
Adhesive Bond Strength	16.44 MPa	2385 psi	tensile shear; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	61.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	34.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.515 W/m-K	3.57 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	0.10 %	0.10 %	Cured; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	75 @Frequency 1000 Hz	75 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	1.18 kV/mm	30.0 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	50	
Mix ratio by volume (Resin:Hardener)	3.75:1	
Mix ratio by weight (Resin:Hardener)	11:1	

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