

Devcon Plastic Steel® Putty (A) Epoxy

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

Material Notes:

General Repair Epoxy Comments: The original metal-filled epoxy putty used for hundreds of routine maintenance, production and tooling applications. Bonds to most metal, concrete and some plastics. Cures at room temperature and forms a tough, durable metallic mass. Can be drilled, tapped, machined or painted. Excellent resistance to oil, gasoline, water and many chemicals. Patch and repair areas where welding or brazing would be undesirable or impossible. Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Plastic-Steel-Putty-A-Epoxy.php

Physical Properties	Metric	English	Comments
Density	2.33 g/cc	0.0840 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength, Ultimate	22.2 MPa	3220 psi	ASTM D638
Modulus of Elasticity	5.86 GPa	850 ksi	In Tension; ASTM D638
Flexural Yield Strength	38.6 MPa	5600 psi	ASTM D790
Compressive Yield Strength	57.0 MPa	8260 psi	ASTM D695
Adhesive Bond Strength	19.3 MPa	2800 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 $\mu\text{m}/\text{m}\cdot\text{C}$	47.8 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.573 W/m-K	3.97 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Maximum Service Temperature, Air	121 $^{\circ}\text{C}$	250 $^{\circ}\text{F}$	Operating Temperature
Shrinkage	0.060 %	0.060 %	During Cure; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	67.5	67.5	ASTM D150
Dielectric Strength	1.18 kV/mm	30.0 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Pot Life	45.0 min @Temperature 23.9 °C	45.0 min @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per lb.	48 in ²	at 1/4 inch thick
Mix Ratio by Volume	2.5 to 1	resin:hardener
Mix Ratio By Weight	9 to 1	resin:hardener

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