

Devcon Plastic Steel® Liquid (B) Epoxy

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

Material Notes:

General Repair EpoxyComments: Steel-filled liquid epoxy can be cast over models for accurate detail reproduction when making holding fixtures, light-gauge forming dies and molds. Hardens in about an hour. Can be machined to close tolerance. Low viscosity and high compressive strength. Ideal leveling compound for machinery and equipment. Qualifies under Mil Spec MMM-A-1754.Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Plastic-Steel-Liquid-B-Epoxy.php

Physical Properties	Metric	English	Comments
Density	2.11 g/cc	0.0763 lb/in ³	
Viscosity	15000 - 25000 cP	15000 - 25000 cP	with hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength, Ultimate	33.8 MPa	4900 psi	ASTM D638
Modulus of Elasticity	5.86 GPa	850 ksi	In Tension; ASTM D638
Flexural Yield Strength	33.0 MPa	4780 psi	ASTM D790
Compressive Yield Strength	70.3 MPa	10200 psi	ASTM D695
Adhesive Bond Strength	19.3 MPa	2800 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 µm/m-°C	37.8 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.582 W/m-K	4.03 BTU-in/hr-ft ² -°F	ASTM C177
Maximum Service Temperature, Air	121 °C	250 °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
Processing Temperature	21.1 °C	70.0 °F	
Pot Life	45.0 min	45.0 min	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per lb.	52 in ²	at 1/4 inch thick
Mix Ratio by Volume	3 to 1	resin:hardener
Mix Ratio By Weight	9 to 1	resin:hardener

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