

Devcon Zip Patch™ Epoxy

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

Material Notes:

Emergency Repair ProductsComments: High-technology, adhesive-impregnated, putty patching system that cures at room temperature. Hardens to a tough, durable, waterproof finish in minutes. Easy-to-use, fast setting patch kit. Make permanent, waterproof field repairs to pipes, tanks and containers, Excellent adhesion to iron, steel, stainless steel, titanium, fiberglass, aluminum, wood, ceramics, composites, acrylics, PVC and most other plastics. Minimal surface preparation.Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Zip-Patch-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Viscosity	17000 cP	17000 cP	with hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Ultimate	69.6 MPa	10100 psi	ASTM D638
Modulus of Elasticity	2.00 GPa	290 ksi	In Tension; ASTM D638
Flexural Yield Strength	131 MPa	19000 psi	ASTM D790
Adhesive Bond Strength	31.7 MPa	4600 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	115 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	63.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.715 W/m-K	4.96 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Maximum Service Temperature, Air	93.3 $^{\circ}\text{C}$	200 $^{\circ}\text{F}$	Operating Temperature
Shrinkage	0.10 %	0.10 %	During Cure; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	43.5	43.5	ASTM D150
Dielectric Strength	9.84 kV/mm	250 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Pot Life	5.00 min @Temperature 23.9 °C	5.00 min @Temperature 75.0 °F	

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