

Devcon HVAC Repair (Special F) Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Cast, Metal Filled

Material Notes:

General Repair EpoxyComments: Aluminum-filled epoxy adhesive, conveniently packaged in two 6.5 oz. tubes. Bonds to aluminum and other metals, ceramics, wood, concrete or glass. Use as an adhesive for repairs to copper coils in compressors. Hardens to a rigid bond that can be ground, drilled or tapped. Fill voids or porosity in aluminum castings.Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-HVAC-Repair-Special-F-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	
Viscosity	40000 cP	40000 cP	with hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength, Ultimate	25.6 MPa	3720 psi	ASTM D638
Modulus of Elasticity	5.38 GPa	780 ksi	In Tension; ASTM D638
Flexural Yield Strength	43.2 MPa	6260 psi	ASTM D790
Compressive Yield Strength	58.1 MPa	8420 psi	ASTM D695
Adhesive Bond Strength	17.2 MPa	2500 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.724 W/m-K	5.02 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	0.080 %	0.080 %	During Cure; ASTM D2566

Electrical Properties	Metric	English	Comments
Dielectric Constant	21.4	21.4	ASTM D150
Dielectric Strength	3.94 kV/mm	100 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 °C	70.0 °F	
Pot Life	60.0 min	60.0 min	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per lb.	64 in ²	at 1/4 inch thick
Mix Ratio by Volume	1 to 1	resin:hardener
Mix Ratio By Weight	0.9 to 1	resin:hardener

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