

Devcon Tile Adhesive Epoxy

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

Material Notes:

Abrasion-Resistant SystemComments: PuttyData provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-Tile-Adhesive-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0521 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	ASTM D2240
Tensile Strength, Ultimate	18.2 MPa	2640 psi	ASTM D638
Modulus of Elasticity	5.52 GPa	800 ksi	In Tension; ASTM D638
Flexural Yield Strength	37.8 MPa	5480 psi	ASTM D790
Compressive Yield Strength	59.4 MPa	8620 psi	ASTM D695
Adhesive Bond Strength	19.9 MPa	2890 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.523 W/m-K	3.62 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	46	46	ASTM D150
Dielectric Strength	12.6 kV/mm	320 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 $^{\circ}\text{C}$	70.0 $^{\circ}\text{F}$	
Pot Life	120 - 180 min	120 - 180 min	

Processing Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	Comments
Descriptive Properties	Value		Comments
Coverage per lb.	76.4 in ²		at 1/4 inch thick
Mix Ratio by Volume	1 to 1		resin:hardener
Mix Ratio By Weight	10 to 9		resin:hardener

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