

Devcon High-Performance Backing Compound Epoxy

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

Material Notes:

Abrasion-Resistant System Data provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Devcon-High-Performance-Backing-Compound-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0581 lb/in ³	
Viscosity	10320 cP	10320 cP	with hardener

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	ASTM D2240
Tensile Strength, Ultimate	53.00 MPa	7687 psi	ASTM D638
Modulus of Elasticity	6.55 GPa	950 ksi	In Tension; ASTM D638
Flexural Yield Strength	79.3 MPa	11500 psi	ASTM D790
Compressive Yield Strength	130.0 MPa	18850 psi	ASTM D695
Adhesive Bond Strength	13.8 MPa	2000 psi	Adhesive tensile shear strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	22.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	121 °C	250 °F	Operating Temperature
Shrinkage	0.060 %	0.060 %	During Cure; ASTM D2566

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 °C	70.0 °F	
Pot Life	56.0 min	56.0 min	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Coverage per 20.3 lb.	347 in ²	

Mix Ratio by Volume Descriptive Properties	9.95 to 1 Value	resin:hardener Comments
Mix Ratio By Weight	100 to 5.94	resin:hardener

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