

Epoxyset Epoxiohm EO-30M-1 Electrically Conductive Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy, Electrically Conductive

Material Notes:

EO-30M-1 is a two part, semi-rigid, silver filled, epoxy adhesive. EO-30M-1 exhibits superior adhesion to a wide variety of substrates including most metals, ceramics, glass and plastics. Information provided by Epoxyset Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxyset-Epoxiohm-EO-30M-1-Electrically-Conductive-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in ³	
Viscosity	>= 30000 cP	>= 30000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Shear Strength	24.0 MPa	3480 psi	
Adhesive Bond Strength	11.7 MPa	1700 psi	Lap Shear Strength

Thermal Properties	Metric	English	Comments
CTE, linear	77.0 $\mu\text{m/m-}^{\circ}\text{C}$	42.8 $\mu\text{in/in-}^{\circ}\text{F}$	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-55.0 $^{\circ}\text{C}$	-67.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	50.0 $^{\circ}\text{C}$	122 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\leq 0.00100 \text{ ohm-cm}$	$\leq 0.00100 \text{ ohm-cm}$	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 70.0 $^{\circ}\text{C}$	@Temperature 158 $^{\circ}\text{F}$	
	1440 - 2880 min	24.0 - 48.0 hour	
	@Temperature 25.0 $^{\circ}\text{C}$	@Temperature 77.0 $^{\circ}\text{F}$	
Pot Life	240 min	240 min	

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