

## Epoxyset Epoxiohm EO-38M-3 Electrically Conductive Epoxy Adhesive

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

### Material Notes:

EO-38M-3 is a two components, 100% solids silver-filled epoxy system designed specifically for chip bonding in microelectronic and optoelectronic applications. It is used for thermal management applications due to its high thermal conductivity. Information provided by Epoxyset Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxyset-Epoxiohm-EO-38M-3-Electrically-Conductive-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Epoxyset-Epoxiohm-EO-38M-3-Electrically-Conductive-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in <sup>3</sup>	
Viscosity	30000 - 35000 cP	30000 - 35000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	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	56.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	
Glass Transition Temp, Tg	95.0 °C	203 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\leq 0.000400$ ohm-cm	$\leq 0.000400$ ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	10.0 min	0.167 hour	
	@Temperature 175 °C	@Temperature 347 °F	
	120 min	2.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	

Pot Life Processing Properties	$\geq 480$ min Metric	$\geq 480$ min English	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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