

## Epoxy Technology EPO-TEK® OE138 Two Component Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

**Material Description:** A two component epoxy with intermediate viscosity range between EPO-TEK® 353ND and EPO-TEK® 353ND-T. It is designed for semiconductor glob top applications, as well as use in medical and fiber optic industries. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-OE138-Two-Component-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OE138-Two-Component-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	1.06 g/cc	1.06 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	4000 - 7000 cP	4000 - 7000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Modulus	2.71 GPa	393 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 46.9 MPa	>= 6800 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 µm/m-°C	11.7 µin/in-°F	Below Tg
	128 µm/m-°C	71.1 µin/in-°F	Above Tg
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
	300 °C	572 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 90.0 °C	>= 194 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	406 °C	763 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 9.00e+12 ohm-cm	>= 9.00e+12 ohm-cm	
Dielectric Constant	3.18	3.18	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	2.00 min	0.0333 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 min	0.500 hour	minimum
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	120 min	120 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	Tan	Part A
Consistency	Smooth pourable paste	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Thixotropic Index	1.3	
Weight Loss	0.18%	200°C
	0.6%	250°C
	1.4%	300°C

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