

Epoxy Technology EPO-TEK® 310M-T Flexible Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A two component, flexible epoxy designed for low stress applications in semiconductor, hybrid, medical, acoustical and optical industries. Replacement for EPO-TEK® 310T. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-310M-T-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	Part B
	1.12 g/cc	1.12 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	1800 - 3300 cP	1800 - 3300 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Modulus	0.008432 GPa	1.223 ksi	Storage
Shear Strength	3.45 MPa	500 psi	Lap
	>= 7.03 MPa	>= 1020 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	74.0 µm/m-°C	41.1 µin/in-°F	Below Tg
	236 µm/m-°C	131 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	<= 30.0 °C	<= 86.0 °F	Dynamic Cure 20—200°C /ISO 25 Min; Ramp 10—200°C @ 20°C/Min
Decomposition Temperature	401 °C	754 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 2.50 \times 10^{10}$ ohm-cm	$\geq 2.50 \times 10^{10}$ ohm-cm	
Dielectric Constant	5.1	5.1	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.091	0.091	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	35 min	35 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Clear/Colorless	Part B
	Tan	Part A
Consistency	Slightly thixotropic paste	
Mix Ratio By Weight	10:6	
Number of Components	Two	
Weight Loss	0.05%	200°C
	0.18%	250°C
	0.63%	300°C

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