

# EPO-TEK® M10-D

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A single component, B-stageable epoxy paste for semiconductor, microelectronics, and optical assemblies. It can be used in hybrid assemblies for lid-sealing and substrate attach. In opto-packaging, it can be used as the main gasket seal of glass plates in LCDs, or for sealing filter windows onto opto-sensors.

General Information		
Features	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LCD Applications	
	Optical Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Dry Time	> 1.0	day
Degradation Temperature	370	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	3.98	GPa
Thixotropic Index	9.20	
Weight Loss on Heating		
200°C	1.3	%
250°C	2.8	%
300°C	5.8	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	80.0	°C
CLTE - Flow		
-- 1	3.5E-5	cm/cm/°C
-- 2	1.3E-4	cm/cm/°C

Thermal Conductivity	0.42	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life <sup>3</sup>	52	wk
Uncured Properties	Nominal Value	Unit
Color	Tan	
Density	1.35	g/cm <sup>3</sup>
Viscosity <sup>4</sup> (23°C)	3.0 to 6.0	Pa·s
Curing Time		
75°C <sup>5</sup>	0.50	hr
150°C	1.0	hr
Pot Life <sup>6</sup>	20000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	72	
Lap Shear Strength (23°C)	4.00	MPa
Relative Permittivity (1 kHz)	4.32	
Volume Resistivity (23°C)	> 5.0E+11	ohms·cm
Dissipation Factor (1 kHz)	0.11	
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	Refrigerated	
4.	50 rpm	
5.	B-stage	
6.	Closed Container	

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#### Recommended distributors for this material

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