

EPO-TEK® MA-5

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, B-stageable, optical grade epoxy for fiber optic assembly. It may be used for B-stage sealing of fiber cables into ferrules, or fiber optic feed-through into the opto-package. B-stage adhesive joining of glass or optics can also be realized.

General Information		
Uses	Adhesives	
	Electrical/Electronic Applications	
	Optical Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Thermal	Nominal Value	Unit
Glass Transition Temperature	120	°C
CLTE - Flow		
-- ¹	6.3E-5	cm/cm/°C
-- ²	1.3E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ³	1.490	
Transmittance (500 to 1600 nm)	> 95.0	%
Thermoset	Nominal Value	Unit
Shelf Life ⁴	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	445	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	1.48	GPa
Weight Loss on Heating		
200°C	0.36	%
250°C	0.79	%
300°C	2.1	%
Uncured Properties	Nominal Value	Unit

Color	Amber	
Density	1.07	g/cm ³
Viscosity ⁵ (23°C)	0.10 to 0.30	Pa·s
Curing Time		
70°C ⁶	1.0	hr
150°C	1.0	hr
Pot Life	180	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	12.7	MPa
Relative Permittivity (1 kHz)	2.92	
Volume Resistivity (23°C)	> 1.0E+12	ohms·cm
Dissipation Factor (1 kHz)	0.011	
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	589 nm	
4.	Refrigerated	
5.	100 rpm	
6.	B-stage	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

