



Product Information Sheet

EPO-TEK® MA-5

Date: September 2017
Rev: III
No. of Components: Single
Mix Ratio by Weight: N/A
Specific Gravity: 1.07
Pot Life: 3 Hours
Shelf Life- Bulk: One year refrigerated

Recommended Cure: B-stage cure: 70°C / 1 Hour
Cure: 150°C / 1 Hour

NOTES:

- Container(s) should be kept closed when not in use.
- Filled systems should be stirred thoroughly before mixing and prior to use.
- Performance properties (rheology, conductivity, others) of the product may vary from those stated on the data sheet when bi-pak/syringe packaging or post-processing of any kind is performed. Epoxy's warranties shall not apply to any products that have been reprocessed or repackaged from Epoxy's delivered status/container into any other containers of any kind, including but not limited to syringes, bi-paks, cartridges, pouches, tubes, capsules, films or other packages.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

Product Description: 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.

Typical Properties: Cure condition: varies as required Different batches, conditions & applications yield differing results.
Data below is not guaranteed. To be used as a guide only, not as a specification. * denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

* Color (before cure):	Light amber		
* Consistency:	Pourable liquid		
* Viscosity (23°C) @ 100 rpm:	100 - 300	cPs	
Thixotropic Index:	N/A		
Glass Transition Temp:	120	°C	
Coefficient of Thermal Expansion (CTE):			
Below Tg:	63	x 10 ⁻⁶ in/in°C	
Above Tg:	128	x 10 ⁻⁶ in/in°C	
Shore D Hardness:	85		
Lap Shear @ 23°C:	1,836	psi	
Die Shear @ 23°C:	≥ 10	Kg	3,556 psi
Degradation Temp:	445	°C	
Weight Loss:			
@ 200°C:	0.36	%	
@ 250°C:	0.79	%	
@ 300°C:	2.05	%	
Suggested Operating Temperature:	< 350	°C (Intermittent)	
Storage Modulus:	214,528	psi	
* Particle Size:	N/A		

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A		
Volume Resistivity @ 23°C:	≥ 1 x 10 ¹²	Ohm-cm	
Dielectric Constant (1KHz):	2.92		
Dissipation Factor (1KHz):	0.011		

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	> 95% @ 500-1600	nm	
Refractive Index:	1.4898 @589	nm	

This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.

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