

EPO-TEK® OM125

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® OM125 is two component, high Tg, optical epoxy designed for bonding multi-mode fiber optic connectors.

General Information			
Features	Low Viscosity		
Uses	Bonding		
	Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Processing Method	Encapsulating		
	Potting		
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 80.0	°C	
CLTE - Flow			
-- ²	2.8E-5	cm/cm/°C	
-- ³	1.1E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Transmittance			
800 nm	> 97.0	%	
1000 nm	> 98.0	%	
1500 nm	> 96.0	%	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 10		
Part B	Mix Ratio by Weight: 3.0		
Shelf Life (23°C)	52	wk	
Additional Information	Nominal Value	Unit	Test Method
Degradation Temperature	367	°C	TGA
Die Shear Strength - >20 kg (23°C)	46.9	MPa	
Operating Temperature			
Continuous	-55 to 175	°C	

Intermittent	-55 to 275	°C	
Storage Modulus	2.67	GPa	
Weight Loss on Heating			
200°C	0.25	%	
250°C	0.56	%	
300°C	1.4	%	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- 4	Blue		
-- 5	Clear/Transparent		
Density			
Part B	0.988	g/cm ³	
Part A	1.16	g/cm ³	
Viscosity ⁶ (23°C)	2.4 to 5.4	Pa·s	
Curing Time (80°C)	> 1.0	hr	
Pot Life	< 60	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	81		
Lap Shear Strength (23°C)	5.57	MPa	
Relative Permittivity (1 kHz)	3.90		
Volume Resistivity (23°C)	< 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	0.019		
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	50 rpm		

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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



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