

Epoxy Technology EPO-TEK® OG142-112 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: Single component, medium viscosity, UV curable epoxy for adhesive sealing and encapsulating fiber optic and optoelectronic packaging application. Replacement version of EPO-TEK® OG142-13 with similar index reflection, but better bonding strength. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG142-112-UV-Cure-Optical-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	
Viscosity	1200 - 1700 cP	1200 - 1700 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Tensile Modulus	1.78 GPa	258 ksi	Storage

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C	30.6 µin/in-°F	Below Tg
	158 µm/m-°C	87.8 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	>= 90.0 °C	>= 194 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	384 °C	723 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.5395	1.5395	
	@Wavelength 589 nm	@Wavelength 589 nm	
	>= 97 %	>= 97 %	

Transmission Visible Optical Properties	@Wavelength 500 - 1000 nm Metric	@Wavelength 500 - 1000 nm English	Spectral Comments
--	--	---	----------------------

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	refrigerated

Descriptive Properties	Value	Comments
Color	Cloudy/Colorless	before cure
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	0.27%	200°C
	0.81%	250°C
	1.75%	300°C

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China