

EPO-TEK® OG142-112

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® OG142-112 is a single component, low viscosity epoxy for adhesive sealing and encapsulating fiber optic and opto-electronic packaging applications.

General Information		
Features	Good Adhesion	
	Low Viscosity	
	UV Curable	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Seals	
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	> 90.0	°C
CLTE - Flow		
-- ²	5.5E-5	cm/cm/°C
-- ³	1.6E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- ⁴	1.537	
-- ⁵	1.556	
Transmittance (500 to 1660 nm)	> 97.0	%
Thermoset	Nominal Value	Unit
Shelf Life ⁶	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	384	°C
Die Shear Strength - >20 kg (23°C)	46.9	MPa

Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	4.09	GPa
Weight Loss on Heating		
200°C	0.27	%
250°C	0.81	%
300°C	1.8	%
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.18	g/cm ³
Viscosity ⁷ (23°C)	1.2 to 1.7	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	83	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	589 nm (uncured)	
5.	589 nm (cured)	
6.	Refrigerated	
7.	100 rpm	

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