

EPO-TEK® OG142-87

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

Single component, low viscosity, UV curable epoxy for adhesive sealing and encapsulating fiber optic and optoelectronic packaging application.

Replacement version of EPO-TEK OG142-13 with better bonding strength and moisture resistance.

Formerly 90-87-6

General Information		
Features	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	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	5.0E-5	cm/cm/°C
-- ³	1.6E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- ⁴	1.493	
-- ⁵	1.506	
Transmittance (580 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	3.59	GPa
Weight Loss on Heating		
200°C	0.32	%
250°C	0.64	%
300°C	1.6	%
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.17	g/cm ³
Viscosity ⁷ (23°C)	0.25 to 0.60	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	82	
NOTE		

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|----|--|
| 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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