

EPO-TEK® OG142

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® OG142 is a single component, UV curable epoxy, designed for adhesive, sealing, and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical and scientific/OEM industries. It is a clear and colorless, high Tg epoxy.

General Information	
Features	Good Adhesion Medium Viscosity UV Curable
Uses	Adhesives Electrical/Electronic Applications LCD Applications LEDs Medical/Healthcare 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	> 95.0	°C
CLTE - Flow		
-- ²	5.6E-5	cm/cm/°C
-- ³	1.1E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- ⁴	1.565	
-- ⁵	1.581	
Transmittance		
440 to 620 nm	> 92.0	%
660 to 1640 nm	> 97.0	%

Thermoset	Nominal Value	Unit
Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	421	°C
Die Shear Strength - >4 kg (23°C)	9.38	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	3.85	GPa
Weight Loss on Heating		
200°C	0.20	%
250°C	0.49	%
300°C	1.1	%
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.17	g/cm ³
Viscosity ⁶ (23°C)	9.0 to 15	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	86	
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. | 20 rpm |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT