

EPO-TEK® OE184

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, high Tg, optically clear epoxy for packaging and assembly of fiber optics cables and components. It is suggested for termination of fibers into ferrules, or fabrication of waveguide devices. It is a faster curing alternative to EPO-TEK® 353ND. Complies with USP Class VI biocompatibility standards.

General Information		
Features	Biocompatible	
Uses	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	3.6E-5	cm/cm/°C
-- ³	1.7E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.570	
Transmittance		
700 to 1400 nm	> 95.0	%
1550 nm	95.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	474	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	1.60	GPa
Weight Loss on Heating		

200°C	0.070	%
250°C	0.14	%
300°C	0.39	%
Uncured Properties	Nominal Value	Unit
Color		
-- 5	Amber	
-- 6	Clear/Transparent	
Density		
Part B	1.02	g/cm ³
Part A	1.20	g/cm ³
Viscosity ⁷ (23°C)	3.0 to 4.0	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	< 60	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	87	
Lap Shear Strength (23°C)	11.3	MPa
Relative Permittivity (1 kHz)	3.45	
Volume Resistivity (23°C)	> 7.0E+12	ohms·cm
Dissipation Factor (1 kHz)	7.0E-3	
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	
5.	Part B	
6.	Part A	
7.	100 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