

EPO-TEK® 730 Black

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, room temperature curing, general and structural grade epoxy resin. It can be used for adhesive and sealing applications in medical, x-ray device, filtration, opto-electronics, and PCB industries. It is a thixotropic, black version of EPO-TEK® 730.

General Information		
Features	General Purpose	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	General Purpose	
	Medical/Healthcare Applications	
	Printed Circuit Boards	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	364	°C
Die Shear Strength - >10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus (23°C)	762	MPa
Thixotropic Index	2.10	
Weight Loss on Heating		
200°C	1.4	%
250°C	2.2	%
300°C	4.2	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 55.0	°C
CLTE - Flow		

-- ²	8.2E-5	cm/cm/°C
-- ³	2.5E-4	cm/cm/°C
Optical	Nominal Value	Unit
Transmittance		
480 nm	< 10.0	%
980 nm	< 25.0	%
1550 nm	< 45.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Black	
-- ⁵	Tan	
Density		
Part B	0.938	g/cm ³
Part A	1.12	g/cm ³
Viscosity ⁶ (23°C)	80 to 120	Pa·s
Curing Time (80°C)	2.0	hr
Pot Life	60	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	64	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.50	
Volume Resistivity (23°C)	> 1.0E+13	ohms·cm
Dissipation Factor (1 kHz)	0.024	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	Part A	
5.	Part B	
6.	2.5 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

