

EPO-TEK® OE120

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, opaque epoxy, designed for fiber optics packaging applications. It is a black-colored version of EPO-TEK 353ND-T. It has a high Tg for resisting elevated operating temperatures found in medical fiber optics or hybrid-microelectronic applications.

General Information		
Features	Thixotropic	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
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	< 50.0	µm
Degradation Temperature	402	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	3.18	GPa
Thixotropic Index	3.30	
Weight Loss on Heating		
200°C	0.070	%
250°C	0.38	%
300°C	1.1	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 90.0	°C
CLTE - Flow		
-- ²	2.8E-5	cm/cm/°C
-- ³	1.2E-4	cm/cm/°C
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)	26	wk
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Amber	
-- 5	Black	
Density		
Part B	1.06	g/cm ³
Part A	1.21	g/cm ³
Viscosity ⁶ (23°C)	12 to 16	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	210	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.47	
Volume Resistivity (23°C)	> 6.0E+12	ohms·cm
Dissipation Factor (1 kHz)	0.010	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below T _g	
3.	Above T _g	
4.	Part B	
5.	Part A	
6.	20 rpm	

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