

EPO-TEK® 353ND Black

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO TEK® 353ND Black is a a two component, high temperature epoxy designed for semiconductor, hybrid, fiber optic, and medical applications.

General Information		
Features	Autoclave Sterilizable	
	Ethylene Oxide Sterilizable	
	High Heat Resistance	
	Radiation Sterilizable	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	Impregnation Applications	
	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	Potting	
Physical	Nominal Value	Unit
Ion Type		
Cl-	595	ppm
K+	16	ppm
Na+	52	ppm
NH4+	1149	ppm
Degradation Temperature	420	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus (23°C)	3.56	GPa
Weight Loss on Heating		
200°C	0.92	%

250°C	1.2	%	
300°C	1.8	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	5.4E-5	cm/cm/°C	
-- ³	2.1E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Transmittance (1500 nm)	< 3.0	%	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 10		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Amber		
-- ⁵	Black		
Density			
Part B	1.02	g/cm ³	
Part A	1.22	g/cm ³	
Viscosity ⁶ (23°C)	3.0 to 5.0	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	180 to 240	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz, 23°C)	3.09		
Volume Resistivity (23°C)	> 1.6E+13	ohms · cm	
Dissipation Factor (1 kHz, 23°C)	5.0E-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.	Part B		
5.	Part A		
6.	50 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.

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

