

EPO-TEK® 383ND

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A slightly longer pot life version of EPO-TEK®353ND designed for high temperature, optical and structural applications inside the semiconductor, hybrid, electronic, fiber optic and medical industries.

General Information		
Features	High Heat Resistance	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	415	°C
Die Shear Strength - >20 kg (23°C)	46.9	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus	2.54	GPa
Weight Loss on Heating		
200°C	0.28	%
250°C	0.42	%
300°C	0.86	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	3.4E-5	cm/cm/°C
-- ³	1.3E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.572	
Transmittance (520 to 1660 nm)	> 90.0	%
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
Uncured Properties	Nominal Value	Unit
Color		
-- ⁵	Clear/Transparent	
-- ⁶	Yellow	
Density		
Part B	0.988	g/cm ³
Part A	1.20	g/cm ³
Viscosity ⁷ (23°C)	3.5 to 6.0	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	480	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	88	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	2.58	
Volume Resistivity (23°C)	> 3.0E+13	ohms·cm
Dissipation Factor (1 kHz)	8.0E-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 A	
6.	Part B	
7.	50 rpm	

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