

EPO-TEK® 353ND-LH Premium

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, high temperature epoxy designed for semiconductor, hybrid, fiber optic and medical applications. This product meets halogen-free requirements.

General Information		
Features	Halogen Free	
	High Heat Resistance	
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	Liquid	
Physical	Nominal Value	Unit
Ion Type		
Cl-	147	ppm
K+	2	ppm
Na+	4	ppm
NH4+	321	ppm
Degradation Temperature	407	°C
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus	3.56	GPa
Weight Loss on Heating		
200°C	0.60	%
250°C	0.95	%
300°C	1.7	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	99.0	°C
CLTE - Flow		
-- 1	5.4E-5	cm/cm/°C
-- 2	2.1E-4	cm/cm/°C

Optical	Nominal Value	Unit
Refractive Index ³	1.569	
Transmittance		
550 nm	> 50.0	%
800 to 1000 nm	> 98.0	%
1100 to 1600 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
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Clear/Transparent	
Density		
Part B	1.02	g/cm ³
Part A	1.20	g/cm ³
Viscosity ⁶ (23°C)	3.7	Pa·s
Curing Time (150°C)	0.017	hr
Pot Life	> 120	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	> 13.8	MPa
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	589 nm	
4.	Part B	
5.	Part A	
6.	50 rpm	

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