

# EPO-TEK® 353ND-LH Ultra

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A two component, high temperature epoxy designed for semiconductor, hybrid, fiber optic and medical applications. This product easily 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-	38	ppm
K+	0	ppm
Na+	1	ppm
NH4+	386	ppm
Degradation Temperature	418	°C
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus	3.24	GPa
Weight Loss on Heating		
200°C	0.050	%
250°C	0.18	%
300°C	0.58	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	102	°C
CLTE - Flow		
-- 1	4.4E-5	cm/cm/°C
-- 2	1.9E-4	cm/cm/°C

Optical	Nominal Value	Unit
Refractive Index <sup>3</sup>	1.567	
Transmittance (860 to 1600 nm)	> 98.0	%
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		
-- <sup>4</sup>	Amber	
-- <sup>5</sup>	Clear/Transparent	
Density		
Part B	1.02	g/cm <sup>3</sup>
Part A	1.19	g/cm <sup>3</sup>
Viscosity <sup>6</sup> (23°C)	3.7	Pa·s
Curing Time (150°C)	0.017	hr
Pot Life	< 180	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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#### Recommended distributors for this material

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