

EPO-TEK® 353ND-T

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO TEK® 353ND-T is a two component, highly thixotropic epoxy with non-flowing properties and high temperature resistance.

General Information		
Features	High Heat Resistance	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	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
Ion Type		
Cl-	471	ppm
K+	15	ppm
Na+	143	ppm
NH4+	400	ppm
Particle Size - D99	< 20.0	µm
Degradation Temperature	409	°C
		TGA
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)	3.86	GPa
Thixotropic Index	3.80	
Weight Loss on Heating		
200°C	0.53	%
250°C	1.2	%
300°C	2.4	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	4.3E-5	cm/cm/°C	
-- ³	2.3E-4	cm/cm/°C	
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	Tan		
Density			
Part B	1.02	g/cm ³	
Part A	1.12	g/cm ³	
Viscosity ⁶ (23°C)	9.0 to 15	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	180	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	13.5	MPa	
Relative Permittivity (1 kHz)	3.21		
Volume Resistivity	> 4.0E+12	ohms · cm	
Dissipation Factor (1 kHz)	3.0E-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.	20 rpm		

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