

EPO-TEK® 353ND-T4

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 353ND-T4 is a two component, highly thixotropic epoxy with non-flowing properties and high temperature resistance. This is a higher viscosity version of EPO-TEK® 353ND-T for applications needing decreased flow.

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	
Particle Size	< 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	2.30		
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 ⁴	39	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁵	Amber		
-- ⁶	Tan		
Density			
Part B	1.02	g/cm ³	
Part A	1.11	g/cm ³	
Viscosity ⁷ (23°C)	11 to 17	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)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.21		
Volume Resistivity (23°C)	> 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.	Refrigerated		
5.	Part B		
6.	Part A		
7.	20 rpm		

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Recommended distributors for this material

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



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