EPO-TEK® 353ND-T5

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 353ND-T5 is an intermediate viscosity version of EPO-TEK® 353ND and EPO-TEK® 353ND-T. It was designed for high temperature applications in fiber optics, electronics and medical devices.

General Information			
Features	High Heat Resistance Medium Viscosity Thixotropic		
Uses	Adhesives Bonding 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	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	2.10		
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/cm³	
Part A	1.13	g/cm³	
Viscosity [6] (23°C)	4.0 to 7.0	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.	50 rpm		

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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