

EPO-TEK® 730

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® 730 is a two component, thixotropic, room temperature-curing epoxy adhesive.

General Information			
Features	Biocompatible		
	General Purpose		
	Good Adhesion		
	Good Green Strength		
	Thixotropic		
Uses	Adhesives		
	Electrical/Electronic Applications		
	General Purpose		
	Medical/Healthcare Applications		
	Printed Circuit Boards		
Agency Ratings	Seals		
	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
	USP Class VI		
RoHS Compliance	RoHS Compliant		
Forms	Paste		
Physical	Nominal Value	Unit	
Particle Size	< 20.0	µm	
Degradation Temperature	364	°C	TGA
Die Shear Strength - > 10 kg (23°C)	23.4	MPa	
Operating Temperature			
Continuous	-55 to 150	°C	
Intermittent	-55 to 250	°C	
Storage Modulus (23°C)	852	MPa	
Thixotropic Index	2.10		
Weight Loss on Heating			
200°C	1.4	%	
250°C	2.2	%	
300°C	4.2	%	

Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 55.0	°C	
CLTE - Flow			
-- ²	6.6E-5	cm/cm/°C	
-- ³	2.5E-4	cm/cm/°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Tan		
-- ⁵	Tan		
Density			
Part B	0.938	g/cm ³	
Part A	1.12	g/cm ³	
Viscosity ⁶ (23°C)	80 to 120	Pa·s	
Curing Time (80°C)	2.0	hr	
Pot Life	60	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	64		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.17		
Volume Resistivity (23°C)	> 3.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	0.021		
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.	2.5 rpm		

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