

EPO-TEK® 354-T

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, thixotropic, high Tg epoxy designed for semiconductor packaging in medical, fiber optic and optoelectronic assemblies. It is an electrically and thermally insulating epoxy and a more thixotropic version of EPO-TEK® 354. Complies with USP Class VI biocompatibility standards.

General Information		
Features	Biocompatible	
	Electrically Insulating	
	Thermally Insulating	
	Thixotropic	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
Agency Ratings	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
Ion Type		
Cl-	38	ppm
K+	3	ppm
Na+	23	ppm
NH4+	62	ppm
Particle Size	< 20.0	µm
Degradation Temperature	485	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	2.07	GPa
Thixotropic Index	3.27	
Weight Loss on Heating		
200°C	0.10	%
250°C	0.23	%

300°C	0.48	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 95.0	°C
CLTE - Flow		
-- ²	5.1E-5	cm/cm/°C
-- ³	1.8E-4	cm/cm/°C
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)	26	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Tan	
Density		
Part A	1.12	g/cm ³
Part B	1.15	g/cm ³
Viscosity ⁶ (23°C)	11 to 20	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	4300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.46	
Volume Resistivity (23°C)	> 1.0E+13	ohms·cm
Dissipation Factor (1 kHz)	8.0E-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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