

EPO-TEK® E3035T-2

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® E3035T-2 is a single component, silver-filled epoxy for semiconductor die attach, as well as SMD attach on hybrid circuits.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Low to No Outgassing	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LEDs	
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-	62	ppm
K+	3	ppm
Na+	21	ppm
NH4+	24	ppm
Particle Size	< 20.0	µm
Degradation Temperature	390	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	2.55	GPa
Thixotropic Index	4.09	
Weight Loss on Heating		
200°C	0.15	%
250°C	0.29	%
300°C	0.32	%

Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	4.2E-5	cm/cm/°C
-- ³	8.0E-5	cm/cm/°C
Thermal Conductivity	1.4	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	1.13	g/cm ³
Viscosity ⁴ (23°C)	80 to 120	Pa · s
Curing Time (180°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	12.2	MPa
Volume Resistivity (23°C)	< 5.0E-4	ohms · cm
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	2.5 rpm	

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