

EPO-TEK® ED1021

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, silver-filled epoxy designed for low power semiconductor LED die attach applications. Unique features include its ability to achieve high thermal conductivity values at low cure temperatures and a very shiny silver appearance which enhances overall LED brightness. Other benefits include long pot-life, low viscosity and high thixotropy making it ideal for wafer level stamping as well as syringe dispensing.
Formerly 77-190-2

General Information		
Filler / Reinforcement	Silver	
Features	Low Viscosity	
	Thermally Conductive	
	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-	< 10	ppm
K+	1	ppm
Na+	3	ppm
NH4+	9	ppm
Particle Size	< 20.0	µm
Degradation Temperature	403	°C
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	178	MPa
Thixotropic Index	4.20	
Weight Loss on Heating		
200°C	0.35	%
250°C	0.41	%

300°C	0.56	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	48.0	°C
CLTE - Flow		
-- ¹	5.2E-5	cm/cm/°C
-- ²	1.8E-4	cm/cm/°C
Thermal Conductivity	3.3	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	2.79	g/cm ³
Viscosity		
23°C ³	1.8	Pa·s
23°C ⁴	8.8	Pa·s
23°C ⁵	37	Pa·s
Curing Time (125°C)	1.0	hr
Pot Life	130000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	82	
Volume Resistivity	2.0E-4	ohms·cm
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	100 rpm	
4.	10 rpm	
5.	1 rpm	

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