

EPO-TEK® P1011S

Thermoset Polyimide

Epoxy Technology Inc.

Message:

EPO-TEK® P1011S is a single component, modified polyimide, high temperature grade, silver-filled electrically and thermally conductive adhesive designed for semiconductor die-attach and hybrid microelectronic packaging.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	High Heat Resistance	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic 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
Dry Time	7.0	day
Degradation Temperature	379	°C
Die Shear Strength - >4 kg (23°C)	9.38	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus (23°C)	4.41	GPa
Thixotropic Index	1.80	
Weight Loss on Heating		
200°C	0.080	%
250°C	0.090	%
300°C	0.16	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		

-- ²	2.8E-5	cm/cm/°C	
-- ³	5.7E-5	cm/cm/°C	
Thermal Conductivity	> 2.8	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (23°C)	52	wk	
Post Cure Time (285°C)	1.5	hr	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Silver		
Density	2.43	g/cm ³	
Viscosity ⁴ (23°C)	6.5 to 11	Pa·s	
Curing Time			
80°C ⁵	< 0.50	hr	
150°C	1.0	hr	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	71		
Volume Resistivity (23°C)	< 5.0E-4	ohms·cm	
NOTE			
1.	Ramp 40°C/Min to 300°C		
2.	Below Tg		
3.	Above Tg		
4.	20 rpm		
5.	Pre-Bake		

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