

EPO-TEK® P1011

Thermoset Polyimide

Epoxy Technology Inc.

Message:

EPO-TEK® P-1011 is a single component, modified polyimide, silver-filled adhesive designed for chip bonding in microelectronic and optoelectronic applications.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	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
Ion Type		
Cl-	114	ppm
K+	18	ppm
Na+	39	ppm
NH4+	27	ppm
Particle Size	< 20.0	µm
Dry Time	7.0	day
Degradation Temperature	389	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Thixotropic Index	1.90	
Weight Loss on Heating		
200°C	0.060	%
250°C	0.080	%
300°C	0.15	%

Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 100	°C	
CLTE - Flow			
-- ²	3.2E-5	cm/cm/°C	
-- ³	2.3E-4	cm/cm/°C	
Thermal Conductivity	> 2.7	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	2.38	g/cm ³	
Viscosity ⁴ (23°C)	8.0 to 12	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)	61		
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT