

EPO-TEK® P10

Thermoset Polyimide

Epoxy Technology Inc.

Message:

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
Ion Type		
Cl-	224	ppm
K+	37	ppm
Na+	75	ppm
NH4+	28	ppm
Particle Size	< 20.0	µm
Degradation Temperature	331	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	2.81	GPa
Thixotropic Index	3.60	
Weight Loss on Heating		
200°C	< 0.050	%
250°C	< 0.050	%

300°C	0.090	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	3.3E-5	cm/cm/°C
-- ³	1.2E-4	cm/cm/°C
Thermal Conductivity	7.9	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (23°C)	52	wk
Post Cure Time (285°C)	1.5	hr
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	2.48	g/cm ³
Viscosity ⁴ (23°C)	9.0 to 15	Pa·s
Curing Time		
80°C ⁵	< 0.50	hr
150°C	1.0	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	73	
Volume Resistivity (23°C)	< 5.0E-3	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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