

EPO-TEK® OE188

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® OE188 is a low CTE, designed for semiconductor and fiber optic applications.

General Information		
Features	High Heat Resistance	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare 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-	188	ppm
Na+	9	ppm
NH4+	304	ppm
Particle Size	< 45.0	µm
Degradation Temperature	420	°C
Die Shear Strength - >15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 335	°C
Storage Modulus	5.40	GPa
Thixotropic Index	1.61	
Weight Loss on Heating		
200°C	0.030	%
250°C	0.070	%
300°C	0.30	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 90.0	°C
CLTE - Flow		
-- ²	1.9E-5	cm/cm/°C
-- ³	6.8E-5	cm/cm/°C

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 20	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Off White	
Density		
Part B	1.02	g/cm ³
Part A	1.55	g/cm ³
Viscosity ⁶ (23°C)	20 to 30	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	90	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	91	
Lap Shear Strength (23°C)	10.9	MPa
Relative Permittivity (1 kHz)	3.56	
Volume Resistivity (23°C)	> 7.0E+12	ohms·cm
Dissipation Factor (1 kHz)	3.0E-3	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	Part B	
5.	Part A	
6.	10 rpm	

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