

EPO-TEK® EK1000-1

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, longer dry time version of EPO-TEK EK1000 designed for applications requiring longer working times.
Formerly 113-24-1

General Information		
Features	Thixotropic	
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-	3	ppm
K+	3	ppm
Na+	3	ppm
NH4+	3	ppm
Particle Size	< 45.0	µm
Dry Time	< 7.0	day
Degradation Temperature	372	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	4.20	GPa
Thixotropic Index	3.70	
Weight Loss on Heating		
200°C	0.040	%
250°C	0.15	%
300°C	0.50	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	103	°C
CLTE - Flow		
-- 1	4.1E-5	cm/cm/°C
-- 2	1.6E-4	cm/cm/°C
Thermal Conductivity		

-- ³	12	W/m/K
-- ⁴	22	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Post Cure Time (200°C)	1.0	hr
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	3.75	g/cm ³
Viscosity ⁵ (23°C)	17	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	20000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	65	
Volume Resistivity (23°C)	7.0E-5	ohms·cm
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	150°C/1 Hour Cure	
4.	150°C/1 Hour+200°C/1 Hour Cure	
5.	10 rpm	

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