

EPO-TEK® OE101

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component epoxy designed for low stress applications in fiber optic packaging, opto-electronics and semiconductors. It is a lower modulus version of EPO-TEK® 353ND.

General Information		
Uses	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Physical	Nominal Value	Unit
Ion Type		
K+	7	ppm
Na+	6	ppm
NH4+	171	ppm
Degradation Temperature	456	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	2.47	GPa
Weight Loss on Heating		
200°C	0.60	%
250°C	0.82	%
300°C	1.2	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 65.0	°C
CLTE - Flow		
-- ²	4.1E-5	cm/cm/°C
-- ³	2.1E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.546	
Transmittance		
400 nm	> 50.0	%
600 nm	> 92.0	%

675 nm	> 97.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁵	Amber	
-- ⁶	Transparent, Light Yellow	
Density		
Part B	1.02	g/cm ³
Part A	1.16	g/cm ³
Viscosity ⁷ (23°C)	1.5 to 2.5	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	240	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	82	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.22	
Volume Resistivity (23°C)	> 1.5E+13	ohms·cm
Dissipation Factor (1 kHz)	3.6E-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.	589 nm	
5.	Part B	
6.	Part A	
7.	100 rpm	

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