

EPO-TEK® OD2002

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

High Tg version of EPO-TEK® 353ND with low modulus and good toughness. Replacement for EPO-TEK® 364. Complies with USP Class VI biocompatibility standards.

General Information		
Features	Biocompatible	
	Good Toughness	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 140	°C
CLTE - Flow		
-- ²	4.5E-5	cm/cm/°C
-- ³	1.9E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.573	
Transmittance		
600 nm	69.0	%
800 to 1640 nm	> 98.0	%
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
Additional Information	Nominal Value	Unit
Degradation Temperature	443	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus	1.82	GPa

Weight Loss on Heating		
200°C	< 0.050	%
250°C	< 0.050	%
300°C	< 0.050	%
Uncured Properties	Nominal Value	Unit
Color		
-- 5	Amber	
-- 6	White	
Density		
Part B	1.02	g/cm ³
Part A	1.20	g/cm ³
Viscosity ⁷ (23°C)	24 to 42	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	240	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	69	
Lap Shear Strength (23°C)	10.8	MPa
Relative Permittivity (1 kHz)	2.83	
Volume Resistivity (23°C)	> 2.0E+12	ohms·cm
Dissipation Factor (1 kHz)	0.011	
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.	2.5 rpm	

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