

EPO-TEK® OD2003-LH Premium

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, low temperature curing, nano rubber toughened epoxy. It has very good adhesion on metals and other substrates, excellent shear strength and vibration dampening properties.

General Information		
Features	Good Adhesion	
	Vibration Damping	
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-	24	ppm
K+	2	ppm
Na+	1	ppm
NH4+	21	ppm
Degradation Temperature	367	°C
Die Shear Strength - 20 kg (23°C)	46.9	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Weight Loss on Heating		
200°C	< 0.050	%
250°C	< 0.050	%
300°C	1.2	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	88.0	°C
Optical	Nominal Value	Unit
Refractive Index ¹	1.553	
Transmittance (820 to 2240 nm)	> 90.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	

Part B	Mix Ratio by Weight: 40	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ²	Amber	
-- ³	White	
Density		
Part B	0.968	g/cm ³
Part A	1.14	g/cm ³
Viscosity ⁴ (23°C)	8.3	Pa·s
Curing Time (80°C)	1.0	hr
Pot Life	60	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	77	
Lap Shear Strength (23°C)	> 13.8	MPa
NOTE		
1.	589 nm	
2.	Part B	
3.	Part A	
4.	20 rpm	

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