

NEONIT® K82 L8

Epoxy; Epoxide

SBHPP

Message:

NEONIT® K82 L8 is a long glass fiber reinforced high temp. epoxy molding compound for applications demanding heat resist., high mech. properties & long term dim. stability at high temp. (as jet engines or indus. equipment), recommended for parts with metal inserts.

General Information			
Filler / Reinforcement	Long glass fiber		
Features	Good dimensional stability		
	Heat resistance, high		
Uses	Industrial application		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS compliance		
Appearance	Dark gray		
Forms	flake		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm ³	ISO 1183
Apparent Density	0.50	g/cm ³	ISO 60
Molding Shrinkage	0.10 - 0.30	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	140	MPa	ISO 527-2
Tensile Strain (Break)	< 1.0	%	ISO 527-2
Flexural Modulus	20000	MPa	ISO 178
Flexural Stress	260	MPa	ISO 178
Compressive Stress	200	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	80	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, not annealed	> 250	°C	ISO 75-2/Af
8.0 MPa, not annealed	> 200	°C	ISO 75-2/C
Glass Transition Temperature	> 220	°C	TMA
Thermal Conductivity	0.40	W/m/K	ASTM E1461

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+15	ohms·cm	ASTM D257
Dielectric Strength	180	kV/mm	IEC 60243-1
Relative Permittivity (23°C, 1 MHz)	6.00		IEC 60250
Comparative Tracking Index	600	V	IEC 60112

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