

NEONIT® SK80 L8G

Epoxy; Epoxide

SBHPP

Message:

NEONIT® SK80 L8G is a long glass fiber reinforced epoxy molding compound with excellent long term property retention over a wide temperature range and climate conditions. It is particularly suited for over molding and manufacturing of large commutators.

General Information	
Filler / Reinforcement	Long glass fiber
Uses	overmolding
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	Resin transfer molding
	Compression molding

Physical	Nominal Value	Unit	Test Method
Density	1.79	g/cm ³	ISO 1183
Apparent Density	0.59	g/cm ³	ISO 60
Molding Shrinkage	0.11	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.050	%	ISO 62
Post Shrinkage	-0.020	%	ISO 2577

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19000	MPa	ISO 527-2
Tensile Stress	119	MPa	ISO 527-2
Tensile Strain (Break)	0.70	%	ISO 527-2
Flexural Modulus	17000	MPa	ISO 178
Flexural Stress	255	MPa	ISO 178
Compressive Stress	265	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	54	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	195	°C	TMA
Linear thermal expansion coefficient			TMA
Flow	1.0E-5	cm/cm/°C	TMA
Lateral	5.7E-5	cm/cm/°C	TMA

Thermal Conductivity	0.49	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	29	kV/mm	IEC 60243-1
Dissipation Factor (23°C, 1 MHz)	0.019		IEC 60250
Comparative Tracking Index	225	V	IEC 60112

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