

NEONIT® SK80 L5G

Epoxy; Epoxide

SBHPP

Message:

NEONIT® SK80 L5G 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	1.77	g/cm ³	ISO 1183
Apparent Density	0.65	g/cm ³	ISO 60
Molding Shrinkage	0.12	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.050	%	ISO 62
Post Shrinkage	-0.030	%	ISO 2577

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19000	MPa	ISO 527-2
Tensile Stress	107	MPa	ISO 527-2
Tensile Strain (Break)	0.70	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	202	MPa	ISO 178
Compressive Stress	244	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	43	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	195	°C	TMA
Linear thermal expansion coefficient			TMA
Flow	1.1E-5	cm/cm/°C	TMA
Lateral	4.9E-5	cm/cm/°C	TMA

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

