

SABIC Innovative Plastics LNP STAT-KON EX11318C PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Stat-Kon* EX11318C is a polyetherimide compound reinforced with carbon fiber for good stiffness, dimension stability and has extremely high level of cleanliness for the most demanding application. A unique feature of this material is its low C18-C40 hydrocarbons. This compound is manufactured using LNP CCS Technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-EX11318C-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm @Time 86400 sec	0.0010 - 0.0020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0015 - 0.0025 cm/cm @Time 86400 sec	0.0015 - 0.0025 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	211 MPa	30600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	21.77 GPa	3157 ksi	50 mm/min; ASTM D638
Flexural Strength	270 MPa	39200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.14 GPa	2631 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.75 J/cm	7.03 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.60 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	2.56 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	43.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	23.9 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	5000 - 5.00e+6 ohm-cm	5000 - 5.00e+6 ohm-cm	ASTM D257
Surface Resistance	5000 - 500000 ohm	5000 - 500000 ohm	ASTM D257
Static Decay	0.10 sec	0.10 sec	5000V to <50V; FTMS101B

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