

SABIC Innovative Plastics LNP STAT-KON EX08318C PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Stat-Kon* EX08318C 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 non-volatile residue (NVR). 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-EX08318C-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.388 g/cc	0.05014 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0025 - 0.0031 cm/cm	0.0025 - 0.0031 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0038 - 0.0045 cm/cm	0.0038 - 0.0045 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	22.68 GPa	3289 ksi	50 mm/min; ASTM D638
Flexural Strength	268 MPa	38900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.2 GPa	2640 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.48 J/cm	6.52 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.90 Âµm/m-Â°C	2.72 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	44.0 Âµm/m-Â°C	24.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

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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