

SABIC Innovative Plastics LNP STAT-KON EX99689C PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* STAT-KON* EX99689C is a compound based on Polyetherimide resin containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-EX99689C-PEI.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
	0.350 %	0.350 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 cm/cm	0.0017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0036 cm/cm	0.0036 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	137 MPa	19900 psi	ISO 527
	161 MPa	23400 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ISO 527
	1.6 %	1.6 %	ASTM D638
Tensile Modulus	11.65 GPa	1690 ksi	50 mm/min; ASTM D638
	12.63 GPa	1832 ksi	1 mm/min; ISO 527
Flexural Strength	216 MPa	31300 psi	ISO 178
	241 MPa	35000 psi	ASTM D790
Flexural Modulus	10.31 GPa	1495 ksi	ISO 178

Mechanical Properties	10.8 GPa Metric	1570 ksi English	ASTM D790 Comments
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.48 J/cm	8.39 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ²	13.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	33.3 Âµm/m-Â°C	18.5 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	33.3 Âµm/m-Â°C	18.5 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	32.9 Âµm/m-Â°C	18.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	33.0 Âµm/m-Â°C	18.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C	405 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C	401 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 0.350 mm	@Thickness 0.0138 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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