

SABIC Innovative Plastics LNP STAT-KON EX02598C PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* STAT-KON* EX02598C is a compound based on Polyetherimide containing Proprietary Filler(s). Added features of this material include: Clean Compound System, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-EX02598C-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	3.24 GPa	470 ksi	1 mm/min; ISO 527
	3.41 GPa	495 ksi	5 mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ISO 178
	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.11 GPa	451 ksi	2 mm/min; ISO 178
	3.31 GPa	480 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.190 J/cm	0.356 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.66 J/cm	4.98 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A

Izod Impact Unnotched (ISO) Mechanical Properties	18.0 kJ/m ² Metric	8.57 ft-lb/in ² English	80*10*4-ISO 180/1U Comments
Dart Drop, Total Energy	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	27.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	54.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	30.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	171 Â°C	340 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	172 Â°C @Thickness 3.20 mm	342 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	160 Â°C	320 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	163 Â°C @Thickness 3.20 mm	325 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 6.0 ohm	3.0 - 6.0 ohm	ASTM D257

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