

SABIC Innovative Plastics LNP STAT-KON OE006A PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP STAT-KON* OE006A is a compound based on PPS - Branched resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-OE006A-PPS-Branched.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0300 %	0.0300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	204 MPa	29600 psi	ISO 527
	210 MPa	30500 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.1 %	1.1 %	ASTM D638
Tensile Modulus	25.45 GPa	3691 ksi	1 mm/min; ISO 527
	32.75 GPa	4750 ksi	50 mm/min; ASTM D638
Flexural Strength	304 MPa	44100 psi	ASTM D790
	311 MPa	45100 psi	ISO 178

Flexural Modulus Mechanical Properties	23.51 GPa Metric	3410 ksi English	ASTM D790 Comments
	24.72 GPa	3585 ksi	ISO 178
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.37 J/cm	8.19 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	1.6	1.6	ASTM D3702 Modified
Coefficient of Friction, Static	1.38	1.38	ASTM D3702 Modified
K (wear) Factor	1730 x 10 ⁻⁸ mm ³ /N-M	857 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.20 Åµm/m-Å°C	4.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	8.70 Åµm/m-Å°C	4.83 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	39.6 Åµm/m-Å°C	22.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	40.8 Åµm/m-Å°C	22.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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

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