

SABIC Innovative Plastics LNP STAT-KON OEL32 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* STAT-KON* OEL32 is a compound based on PPS - Linear resin containing 10% Carbon Fiber, 15% PTFE. Added features of this grade include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-OEL32-PPS-Linear.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	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	127 MPa	18400 psi	5 mm/min; ISO 527
	132 MPa	19100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	127 MPa	18400 psi	5 mm/min; ISO 527
	132 MPa	19100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.4 %	1.4 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.5 GPa	1520 ksi	1 mm/min; ISO 527
	12.56 GPa	1822 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	119 MPa	17300 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	9.20 GPa	1330 ksi	2 mm/min; ISO 178
	9.20 GPa	1330 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.45 J/cm	6.46 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	274 Â°C	525 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	274 Â°C	525 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	234 Â°C	453 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	247 Â°C	477 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

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