

SABIC Innovative Plastics LNP Stat-kon OEL36A PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Stat-Kon* OEL36A is a compound based on Polyphenylene Sulfide resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated, Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-OEL36A-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D 792
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23Â°C / 50% RH; ISO 62
	0.020 %	0.020 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00050 - 0.00070 cm/cm	0.00050 - 0.00070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	168 MPa	24400 psi	5 mm/min; ISO 527
	172 MPa	24900 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	170 MPa	24700 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D 638
	0.90 %	0.90 %	5 mm/min; ISO 527
Tensile Modulus	25.16 GPa	3649 ksi	1 mm/min; ISO 527
	26.62 GPa	3861 ksi	50 mm/min; ASTM D 638
Flexural Strength	225 MPa	32600 psi	1.3 mm/min, 50 mm span; ASTM D 790
	258 MPa	37400 psi	ISO 178
Flexural Modulus	20.7 GPa	3000 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	21.62 GPa Metric	3136 ksi English	2 mm/min; ISO 178 Comments
Izod Impact, Notched	0.410 J/cm @Temperature 23.0 Â°C	0.768 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.99 J/cm @Temperature 23.0 Â°C	7.47 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/mÂ² @Temperature 23.0 Â°C	10.5 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.20 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	4.56 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	41.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	277 Â°C	531 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	277 Â°C @Thickness 3.20 mm	531 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	262 Â°C	504 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	263 Â°C @Thickness 3.20 mm	505 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D 257

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