

LNP Stat-Kon® OC-1006 Polyphenylene Sulfide, Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Features: Electrically ConductiveForms: PelletsProcessing Method: Injection MoldingInformation provided by LNP, a GE Plastics Company.This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Stat-Kon-OC-1006-Polyphenylene-Sulfide-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	Method A; ASTM D792
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	ASTM D638
Tensile Strength, Yield	210 MPa	30500 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ASTM D638
Elongation at Yield	1.1 %	1.1 %	ASTM D638
Tensile Modulus	32.8 GPa	4760 ksi	ASTM D638
Flexural Strength	303 MPa	43900 psi	ASTM D790
Flexural Modulus	23.5 GPa	3410 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.18 mm	0.899 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.38 J/cm @Thickness 3.18 mm	8.21 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	5.20 kJ/m ²	2.47 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	28.1 kJ/m ²	13.4 ft-lb/in ²	ISO 180
Falling Dart Impact	3.30 J	2.43 ft-lb	ASTM D3763
Impact Test	1.70 J	1.25 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	1.6	1.6	@ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687, ASTM D1894
Coefficient of Friction, Static	1.4	1.4	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	1730 x 10 ⁻⁸ mm ³ /N-M	857 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	267 °C	513 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D4496

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 321 °C	601 - 610 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China