

## LNP Stat-Kon® LC-1003 Polyetheretherketone, Carbon Fiber Reinforcement (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

### Material Notes:

Features: Electrically Conductive Forms: Pellets Processing Method: Injection Molding Information 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-LC-1003-Polyetheretherketone-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LNP-Stat-Kon-LC-1003-Polyetheretherketone-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	Method A; ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	191 MPa	27700 psi	ASTM D638
Tensile Strength, Yield	191 MPa	27700 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	16.8 GPa	2440 ksi	ASTM D638
Flexural Strength	296 MPa	42900 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.18 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.41 J/cm @Thickness 3.18 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	7.50 kJ/m <sup>2</sup>	3.57 ft-lb/in <sup>2</sup>	ISO 180
Izod Impact, Unnotched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 180
Falling Dart Impact	5.00 J	3.69 ft-lb	ASTM D3763
Impact Test	2.30 J	1.70 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	258 °C	496 °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	379 - 388 °C	714 - 730 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.010 %	0.010 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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