

LNP Stat-Kon® PDX-E-99689 CCS Polyetherimide, Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Carbon Fiber Filled

Material Notes:

Features: Low to None Ion Content, 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-PDX-E-99689-CCS-Polyetherimide-Carbon-Fiber-Reinforcement-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	Method A; ASTM D792
Water Absorption	0.30 %	0.30 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 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	161 MPa	23400 psi	ASTM D638
Tensile Strength, Yield	137 MPa	19900 psi	ISO 527-1, -2
Elongation at Break	1.6 %	1.6 %	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	10.8 GPa	1570 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.18 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.48 J/cm @Thickness 3.18 mm	8.39 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	5.10 kJ/m ²	2.43 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	28.2 kJ/m ²	13.4 ft-lb/in ²	ISO 180
Falling Dart Impact	11.4 J	8.41 ft-lb	ASTM D3763

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	32.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	32.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	206 $^{\circ}\text{C}$	403 $^{\circ}\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.350 mm	@Thickness 0.0138 in	

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	360 - 366 $^{\circ}\text{C}$	680 - 691 $^{\circ}\text{F}$	
Mold Temperature	121 - 149 $^{\circ}\text{C}$	250 - 300 $^{\circ}\text{F}$	
Drying Temperature	121 - 149 $^{\circ}\text{C}$	250 - 300 $^{\circ}\text{F}$	
Dry Time	4 hour	4 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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