

## LNP Konduit® OTF-212-11 Polyphenylene Sulfide, Proprietary Filler (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

Features: Thermally 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-Konduit-OTF-212-11-Polyphenylene-Sulfide-Proprietary-Filler-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LNP-Konduit-OTF-212-11-Polyphenylene-Sulfide-Proprietary-Filler-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.20 g/cc	2.20 g/cc	Method A; ASTM D792
Density	2.20 g/cc	0.0795 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.7 MPa	12000 psi	ASTM D638
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
Elongation at Yield	0.90 %	0.90 %	ASTM D638
Tensile Modulus	16.4 GPa	2380 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	15.6 GPa	2260 ksi	ASTM D790
Izod Impact, Unnotched	1.71 J/cm @Thickness 3.18 mm	3.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	4.80 kJ/m <sup>2</sup>	2.28 ft-lb/in <sup>2</sup>	ISO 180
Izod Impact, Unnotched (ISO)	14.2 kJ/m <sup>2</sup>	6.76 ft-lb/in <sup>2</sup>	ISO 180
Coefficient of Friction, Dynamic	0.51	0.51	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.52	0.52	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties	Metric	English	Comments
	$10^{-8}$ mm <sup>2</sup> /N-M	$10^{-10}$ in <sup>2</sup> - min/lb-hr	Comments: Conf/min; tested in accordance with LNP WL-0687

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft <sup>2</sup> -°F	Tested in accordance with ASTM F433; ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	264 °C	507 °F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	202 °C	396 °F	Unannealed; ISO 75A-1, -2

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.

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