

LNP Thermocomp® OF-1008 Polyphenylene Sulfide, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

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-Thermocomp-OF-1008-Polyphenylene-Sulfide-Glass-Fiber-Reinforcement-nbspdiscontinued-php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	Method A; ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	234 MPa	33900 psi	ASTM D790
Flexural Modulus	14.2 GPa	2060 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.18 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.24 J/cm @Thickness 3.18 mm	9.82 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.41	0.41	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.50	0.50	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	751 x 10 ⁻⁸ mm ³ /N-M	373 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)	264 °C	507 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 321 °C	601 - 610 °F	

Mold Temperature Processing Properties	135 - 163 °C Metric	275 - 325 °F English	Comments
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	

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