

LNP Thermocomp® JF- 1006 Polyethersulfone, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

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-JF-1006-Polyethersulfone-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	Method A; ASTM D792
Water Absorption	0.30 %	0.30 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 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	143 MPa	20700 psi	ASTM D638
Tensile Strength, Yield	143 MPa	20700 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Elongation at Yield	2.2 %	2.2 %	ASTM D638
Tensile Modulus	10.8 GPa	1570 ksi	ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	9.72 GPa	1410 ksi	ASTM D790
Izod Impact, Notched (ISO)	9.50 kJ/m ²	4.52 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180
Falling Dart Impact	10.7 J	7.89 ft-lb	ASTM D3763
Impact Test	4.16 J	3.07 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
Coefficient of Friction, Dynamic	0.52	0.52	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.57	0.57	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties	Metric	English	Comments
	$2.12 \times 10^{-8} \text{ mm}^2/\text{N-M}$	$170 \times 10^{-10} \text{ in}^2\text{-min/ft-lb}$	40psi, 50ft/min; tested in accordance with ASTM D638

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	354 - 371 °C	669 - 700 °F	
Mold Temperature	135 - 149 °C	275 - 300 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.050 %	0.050 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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