

LNP Thermocomp® UF-1008 Polyphthalamide, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

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-UF-1008-Polyphthalamide-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	Method A; ASTM D792
Water Absorption	0.20 %	0.20 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	236 MPa	34200 psi	ASTM D638
Tensile Strength, Yield	236 MPa	34200 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ASTM D638
Tensile Modulus	16.1 GPa	2340 ksi	ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	13.4 GPa	1940 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.18 mm	1.60 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	8.70 J/cm @Thickness 3.18 mm	16.3 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	51.9 kJ/m ²	24.7 ft-lb/in ²	ISO 180
Falling Dart Impact	5.10 J	3.76 ft-lb	ASTM D3763

Processing Properties	Metric	English	Comments
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Processing Properties	Metric ²⁹ °C	English ²⁴ °F	Comments
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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