

LNP Lubricomp® QFL-4017 ER HS Polyamide 6/10 Copolymer, Glass Fiber Reinforcement, PTFE Lubricant (discontin

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Features: Heat Stabilized, Good Mold Release, Lubricated
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-Lubricomp-QFL-4017-ER-HS-Polyamide-610-Copolymer-Glass-Fiber-Reinforcement-PTFE-Lubricant-nbspdiscontinuu.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	Method A; ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	192 MPa	27800 psi	ASTM D638
Tensile Strength, Yield	192 MPa	27800 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Elongation at Yield	3.5 %	3.5 %	ASTM D638
Tensile Modulus	11.9 GPa	1730 ksi	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	9.03 GPa	1310 ksi	ASTM D790
Izod Impact, Notched	1.76 J/cm @Thickness 3.18 mm	3.30 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	13.7 J/cm @Thickness 3.18 mm	25.7 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	16.9 kJ/m ²	8.04 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	88.3 kJ/m ²	42.0 ft-lb/in ²	ISO 180

Falling Dart Impact Mechanical Properties	11.8 J Metric	8.70 ft-lb English	ASTM D3763 Comments
Impact Test	4.76 J	3.51 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	268 - 274 °C	514 - 525 °F	
Mold Temperature	82.2 - 93.3 °C	180 - 200 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.20 %	0.20 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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