

LNP Lubricomp® QFL-4036 BK8-115 Polyamide 6/10 Copolymer, Glass Fiber Reinforcement, PTFE Lubricant (disconti

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

Material Notes:

Features: LubricatedForms: PelletsProcessing Method: Injection MoldingInformation 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-4036-BK8-115-Polyamide-610-Copolymer-Glass-Fiber-Reinforcement-PTFE-Lubricant-nbspdisconti.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	Method A; ASTM D792
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	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	149 MPa	21600 psi	ASTM D638
Tensile Strength, Yield	149 MPa	21600 psi	ASTM D638
Elongation at Break	2.6 %	2.6 %	ASTM D638
Elongation at Yield	2.6 %	2.6 %	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	221 MPa	32100 psi	ASTM D790
Flexural Modulus	8.48 GPa	1230 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.18 mm	2.19 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	9.39 J/cm @Thickness 3.18 mm	17.6 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	ISO 180
Falling Dart Impact	8.50 J	6.27 ft-lb	ASTM D3763

Mechanical Properties Impact Test	Metric	English	Comments Instrumented Impact Energy, ISO 6603-2
Coefficient of Friction, Dynamic	0.71	0.71	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
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 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 0.46 MPa (66 psi)	224 °C	435 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °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	

Descriptive Properties	Value	Comments
Color	Black	

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