

SABIC Innovative Plastics LNP LUBRICOMP QFL36 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP LUBRICOMP* QFL36 is a compound based on Nylon 6/10 resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QFL36-PA-610.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.220 %	0.220 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 cm/cm	0.0017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	149 MPa	21600 psi	ASTM D638
	150 MPa	21800 psi	ISO 527
Elongation at Break	2.6 %	2.6 %	ASTM D638
	2.6 %	2.6 %	ISO 527
Tensile Modulus	9.80 GPa	1420 ksi	1 mm/min; ISO 527
	11.03 GPa	1600 ksi	50 mm/min; ASTM D638
Flexural Strength	221 MPa	32100 psi	ASTM D790
	228 MPa	33100 psi	ISO 178

Flexural Modulus Mechanical Properties	8.48 GPa Metric	1230 ksi English	ASTM D790 Comments
	9.70 GPa	1410 ksi	ISO 178
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.39 J/cm	17.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.70	0.70	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.8 Åµm/m-Å°C	16.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	29.0 Åµm/m-Å°C	16.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	74.9 Åµm/m-Å°C	41.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	223 Å°C	433 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	211 Å°C	412 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	216 Å°C	421 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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