

SABIC Innovative Plastics LNP LUBRICOMP QL002 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* LUBRICOMP* QL002 is a compound based on Nylon 6/10 containing 10% PTFE. Added features of this grade are: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QL002-PA-610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Moisture Absorption	0.260 %	0.260 %	50% RH, 24 hrs; ASTM D570
	0.380 %	0.380 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.030 cm/cm	0.0090 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
	61.0 MPa	8850 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	2.48 GPa	360 ksi	1 mm/min; ISO 527
	2.68 GPa	389 ksi	50 mm/min; ASTM D638
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Flexural Modulus	2.04 GPa	296 ksi	2 mm/min; ISO 178
	2.27 GPa	329 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.99 J/cm	7.47 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A

Impact Unnotched (ISO) Mechanical Properties	42.0 kJ/m ² Metric	20.0 ft-lb/in ² English	80*10*4-ISO 180/1U Comments
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.25	0.25	ASTM D3702 Modified
K (wear) Factor	70.5 x 10 ⁻⁸ mm ³ /N-M	35.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	112 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	62.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	115 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	143 Â°C	289 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	164 Â°C @Thickness 3.20 mm	327 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.0 Â°C	129 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	63.0 Â°C @Thickness 3.20 mm	145 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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