

SABIC Innovative Plastics LNP LUBRICOMP QL004 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* LUBRICOMP* QL004 is a compound based on Nylon 6/10 containing 20% PTFE. Added features of this grade include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QL004-PA610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Moisture Absorption	0.260 %	0.260 %	50% RH, 24 hrs; ASTM D570
	0.370 %	0.370 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 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	5 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	53.0 MPa	7690 psi	5 mm/min; ISO 527
Elongation at Break	11.4 %	11.4 %	5 mm/min; ISO 527
	15.8 %	15.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	10.8 %	10.8 %	5 mm/min; ISO 527
	14.2 %	14.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.43 GPa	352 ksi	50 mm/min; ASTM D638
	2.48 GPa	360 ksi	1 mm/min; ISO 527
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	1.71 GPa	248 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	2.32 GPa Metric	336 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.75 J/cm	12.6 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
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	61.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	110 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	61.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	170 Â°C	338 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	181 Â°C @Thickness 3.20 mm	358 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	56.0 Â°C @Thickness 3.20 mm	133 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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