

SABIC Innovative Plastics LNP LUBRICOMP QP004 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* LUBRICOMP* QP004 is a compound based on Nylon 6/10 containing 20% PTFE/Silicone. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QP004-PA-610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption	0.330 %	0.330 %	50% RH, 24 hrs; ASTM D570
	0.510 %	0.510 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm @Time 86400 sec	0.010 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	5 mm/min; ISO 527
	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Elongation at Break	9.2 %	9.2 %	5 mm/min; ISO 527
	10.9 %	10.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.0 %	9.0 %	5 mm/min; ISO 527
	10.5 %	10.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.17 GPa	315 ksi	1 mm/min; ISO 527
	2.23 GPa	323 ksi	50 mm/min; ASTM D638
Flexural Strength	69.0 MPa	10000 psi	ISO 178
Flexural Modulus	1.99 GPa	289 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.290 J/cm	0.543 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.14 J/cm	7.76 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)	25.0 kJ/m ²	11.9 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
Coefficient of Friction, Dynamic	0.26	0.26	ASTM D3702 Modified
Coefficient of Friction, Static	0.10	0.10	ASTM D3702 Modified
K (wear) Factor	8.06 x 10 ⁻⁸ mm ³ /N-M	4.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	113 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	62.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	108 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	60.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C	280 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	170 Â°C @Thickness 3.20 mm	338 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 Â°C	131 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	57.0 Â°C @Thickness 3.20 mm	135 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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