

SABIC Innovative Plastics LNP LUBRICOMP QCL34 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* LUBRICOMP* QCL34 is a compound based on Nylon 6/10 resin containing 15% PTFE, 20% Carbon Fiber. Added features of this material include: Wear Resistant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QCL34-PA610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 - 0.00080 cm/cm @Time 86400 sec	0.00060 - 0.00080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	197 MPa	28600 psi	5 mm/min; ISO 527
	201 MPa	29200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	15.56 GPa	2257 ksi	1 mm/min; ISO 527
	16.6 GPa	2410 ksi	50 mm/min; ASTM D638
Flexural Strength	280 MPa	40600 psi	ISO 178
	288 MPa	41800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	289 MPa	41900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	1.3 mm/min, 50 mm span; ASTM D790
	12.49 GPa	1812 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	8.44 J/cm	15.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*3; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified
Coefficient of Friction, Static	0.33	0.33	ASTM D3702 Modified
K (wear) Factor	52.4 x 10 ⁻⁸ mm ³ /N-M	26.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	58.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	32.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	221 Â°C	430 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	206 Â°C	403 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	212 Â°C @Thickness 3.20 mm	414 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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