

SABIC Innovative Plastics LNP Lubricomp PFL34 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Lubricomp* PFL34 is a compound based on Nylon 6 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-PFL34-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D 792
	1.40 g/cc	0.0506 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.89 %	0.89 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	127 MPa	18400 psi	ASTM D 638
	138 MPa	20000 psi	Type I, 5 mm/min; ASTM D 638
	138 MPa	20000 psi	5 mm/min; ISO 527
Elongation at Break	3.1 %	3.1 %	ASTM D 638
	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D 638
	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	7.57 GPa	1100 ksi	50 mm/min; ASTM D 638
	7.90 GPa	1150 ksi	5 mm/min; ASTM D 638
	8.23 GPa	1190 ksi	1 mm/min; ISO 527
Flexural Strength	172 MPa	24900 psi	ASTM D 790

Mechanical Properties	209 MPa Metric	30300 psi English	ISO 178 Comments
	213 MPa	30900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	214 MPa	31000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	5.17 GPa	750 ksi	ASTM D 790
	6.75 GPa	979 ksi	2 mm/min; ISO 178
	7.00 GPa	1020 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.07 J/cm @Temperature 23.0 Â°C	2.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	1.33 J/cm @Temperature 23.0 Â°C	2.49 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	8.67 J/cm @Temperature 23.0 Â°C	16.2 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
	9.69 J/cm @Temperature 23.0 Â°C	18.2 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Impact Test	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.10 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.72 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	0.700 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	0.389 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C @Thickness 3.20 mm	426 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	202 Â°C @Thickness 3.20 mm	396 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	209 Â°C	408 Â°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D 648
Comments

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