

SABIC Innovative Plastics LNP LUBRICOMP FL004 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* Lubricomp* FL004 is a compound based on Polyethylene resin containing 20% PTFE. Added features of this material include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-FL004-PE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
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	6.00 MPa	870 psi	5 mm/min; ISO 527
	12.0 MPa	1740 psi	Type I, 5 mm/min; ASTM D638
	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	23.0 MPa	3340 psi	Type I, 5 mm/min; ASTM D638
	23.0 MPa	3340 psi	5 mm/min; ISO 527
Elongation at Break	42 %	42 %	ASTM D638
	78 %	78 %	5 mm/min; ISO 527
	148 %	148 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	7.9 %	7.9 %	5 mm/min; ISO 527
	8.2 %	8.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.00 GPa	145 ksi	1 mm/min; ISO 527
	1.24 GPa	180 ksi	50 mm/min; ASTM D638
Flexural Strength	19.0 MPa	2760 psi	ISO 178
	20.0 MPa	2900 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
	0.930 GPa	135 ksi	2 mm/min; ISO 178
	1.00 GPa	145 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.3 J/cm	19.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.17	0.17	ASTM D3702 Modified
Coefficient of Friction, Static	0.11	0.11	ASTM D3702 Modified
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	137 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	76.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	121 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	67.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	82.0 Â°C	180 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	74.0 Â°C @Thickness 3.20 mm	165 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	59.0 Â°C	138 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	53.0 Â°C @Thickness 3.20 mm	127 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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