

SABIC Innovative Plastics LNP LUBRICOMP ML004 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* LUBRICOMP* ML004 is a product based on Polypropylene 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-ML004-PP.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Moisture Absorption	0.0100 %	0.0100 %	23 ^o C / 50% RH; ISO 62
	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
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	28.0 MPa	4060 psi	5 mm/min; ISO 527
	29.0 MPa	4210 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	31.0 MPa	4500 psi	5 mm/min; ISO 527
	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	10.4 %	10.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.5 %	5.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.62 GPa	235 ksi	1 mm/min; ISO 527
	1.95 GPa	283 ksi	50 mm/min; ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	1.59 GPa	231 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.59 GPa	231 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	4.18 J/cm Metric	7.79 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m ²	12.4 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	0.89	0.89	ASTM D3702 Modified
Coefficient of Friction, Static	0.70	0.70	ASTM D3702 Modified
K (wear) Factor	26.2 x 10 ⁻⁸ mm ³ /N-M	13.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	220 x 10 ⁻⁸ mm ³ /N-M	109 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	134 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	74.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	126 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	70.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	102 Â°C	216 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	115 Â°C @Thickness 3.20 mm	239 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	56.0 Â°C	133 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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