

SABIC Innovative Plastics LNP LUBRICOMP ML004LS PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* LUBRICOMP* ML004LS is a compound based on Polypropylene resin containing 20% PTFE. Added features of this matLNP*

Lubricomp* ML004LS is a compound based on Polypropylene resin containing PTFE. Added features of this material include: Wear Resistant, Heat Stabilized, Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ML004LS-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	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	0.030 cm/cm @Time 86400 sec	0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	Type I, 5 mm/min; ASTM D638
	22.0 MPa	3190 psi	5 mm/min; ISO 527
Tensile Strength, Yield	32.0 MPa	4640 psi	5 mm/min; ISO 527
	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	28 %	28 %	5 mm/min; ISO 527
	37.9 %	37.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.7 %	5.7 %	5 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.67 GPa	242 ksi	1 mm/min; ISO 527
	1.92 GPa	278 ksi	50 mm/min; ASTM D638
Flexural Strength	37.0 MPa	5370 psi	ISO 178

Flexural Modulus Mechanical Properties	1.48 GPa Metric	215 ksi English	2 mm/min; ISO 178 Comments
	1.72 GPa	249 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.65 J/cm	10.6 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)	35.0 kJ/m ²	16.7 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
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.28	0.28	ASTM D3702 Modified
K (wear) Factor	14.1 x 10 ⁻⁸ mm ³ /N-M	7.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	151 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	83.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	141 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	78.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Â°C	199 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	116 Â°C @Thickness 3.20 mm	241 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
	60.0 Â°C @Thickness 3.20 mm	140 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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