

SABIC Innovative Plastics LNP LUBRICOMP MX91206 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Lubricomp* MX91206 is a compound based on Polypropylene containing proprietary fillers. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-MX91206-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	ASTM D792
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23 [°] 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	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	5 mm/min; ISO 527
	21.0 MPa	3050 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	34.0 MPa	4930 psi	5 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	43.4 %	43.4 %	Type I, 5 mm/min; ASTM D638
	55.4 %	55.4 %	5 mm/min; ISO 527
Elongation at Yield	7.8 %	7.8 %	Type I, 5 mm/min; ASTM D638
	8.0 %	8.0 %	5 mm/min; ISO 527
Tensile Modulus	1.73 GPa	251 ksi	1 mm/min; ISO 527
	2.08 GPa	302 ksi	50 mm/min; ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	1.58 GPa	229 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.470 J/cm	0.881 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.83 J/cm	14.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 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	0.68	0.68	ASTM D3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D3702 Modified
K (wear) Factor	32.2 x 10 ⁻⁸ mm ³ /N-M	16.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	97.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	53.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Â°C	210 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	122 Â°C @Thickness 3.20 mm	252 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Â°C	145 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	68.0 Â°C @Thickness 3.20 mm	154 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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