

SABIC Innovative Plastics LNP LUBRICOMP MX06404 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP LUBRICOMP* MX06404 is a compound based on Polypropylene resin containing 20% Glass Fiber and 15% PTFE. Added features of this material include: Heat Stabilized, Low Extractable, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-MX06404-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 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	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
	36.0 MPa	5220 psi	5 mm/min; ISO 527
Tensile Strength, Yield	38.0 MPa	5510 psi	5 mm/min; ISO 527
	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.1 %	1.1 %	5 mm/min; ISO 527
	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.32 GPa	772 ksi	1 mm/min; ISO 527
	5.73 GPa	831 ksi	5 mm/min; ASTM D638
Flexural Strength	59.0 MPa	8560 psi	ISO 178
Flexural Yield Strength	61.0 MPa	8850 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	4.48 GPa	664 ksi	1 mm/min, 50 mm span; ASTM D790
	4.58 GPa	664 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.410 J/cm	0.768 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.51 J/cm	2.83 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)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse 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
Deflection Temperature at 0.46 MPa (66 psi)	135 Â°C	275 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 Â°C @Thickness 3.20 mm	293 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	103 Â°C @Thickness 3.20 mm	217 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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