

SABIC Innovative Plastics LNP Lubricomp ML002S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Lubricomp* ML002S is a compound based on Polypropylene containing PTFE. Characteristics of this grade are: Heat Stabilized and Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-ML002S-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM D 792
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23 ^o C / 50% RH; ISO 62
	0.020 %	0.020 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	5 mm/min; ISO 527
	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	34.0 MPa	4930 psi	5 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	21.3 %	21.3 %	Type I, 5 mm/min; ASTM D 638
	28.9 %	28.9 %	5 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	6.2 %	6.2 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	1.74 GPa	252 ksi	1 mm/min; ISO 527
	2.14 GPa	310 ksi	50 mm/min; ASTM D 638
Flexural Strength	44.0 MPa	6380 psi	ISO 178

Flexural Modulus Mechanical Properties	1.67 GPa Metric	242 ksi English	2 mm/min* ISO 178 Comments
	1.71 GPa	248 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.350 J/cm @Temperature 23.0 Â°C	0.656 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	6.96 J/cm @Temperature 23.0 Â°C	13.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/mÂ² @Temperature 23.0 Â°C	18.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.66	0.66	ASTM D 3702 Modified
Coefficient of Friction, Static	0.60	0.60	ASTM D 3702 Modified
K (wear) Factor	32.2 x 10 ⁻⁸ mmÂ³/N-M	16.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Ring; ASTM D 3702 Modified
	469 x 10 ⁻⁸ mmÂ³/N-M	233 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	66.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	115 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Â°C	201 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	119 Â°C @Thickness 3.20 mm	246 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric C	English	Comments
	57.0 Â°C	135 Â°F	0+4 sp=64mm; ISO 75/Af
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

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