

SABIC Innovative Plastics LNP LUBRICOMP ML003S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* LUBRICOMP* ML003S is a compound based on Polypropylene resin containing 15% PTFE. Added features include: Heat Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ML003S-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	ASTM D792
Density	0.990 g/cc	0.0358 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23Â°C / 50% RH; ISO 62
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	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D638
	28.0 MPa	4060 psi	5 mm/min; ISO 527
Tensile Strength, Yield	33.0 MPa	4790 psi	5 mm/min; ISO 527
	34.0 MPa	4930 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	18 %	18 %	5 mm/min; ISO 527
	23 %	23 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.68 GPa	244 ksi	1 mm/min; ISO 527
	1.98 GPa	287 ksi	5 mm/min; ASTM D638
Flexural Strength	42.0 MPa	6090 psi	ISO 178
Flexural Modulus	1.59 GPa	231 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.70 GPa	247 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.380 J/cm	0.742 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.99 J/cm	9.35 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)	33.0 kJ/m ²	15.7 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	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	91.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	106 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	58.9 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
	111 Â°C @Thickness 3.20 mm	232 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 Â°C	135 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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