

SABIC Innovative Plastics LNP Lubricomp CI001 PS

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LNP* Lubricomp* CI001 is a compound based on Polystyrene resin containing Silicone. Added features of this material include: 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-CI001-PS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
	1.05 g/cc	0.0379 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0061 cm/cm	0.0061 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527
	28.0 MPa	4060 psi	ASTM D 638
Tensile Strength, Yield	35.0 MPa	5080 psi	ASTM D 638
	37.0 MPa	5370 psi	ISO 527
Elongation at Break	4.8 %	4.8 %	ASTM D 638
	9.3 %	9.3 %	ISO 527
Elongation at Yield	1.3 %	1.3 %	ASTM D 638
	1.3 %	1.3 %	ISO 527
Tensile Modulus	3.02 GPa	438 ksi	1 mm/min; ISO 527
	3.44 GPa	499 ksi	50 mm/min; ASTM D 638

Flexural Strength Mechanical Properties	41.0 MPa Metric	5950 psi English	ASTM D 790 Comments
	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	2.75 GPa	399 ksi	ASTM D 790
	3.10 GPa	450 ksi	ISO 178
Izod Impact, Notched	0.100 J/cm @Temperature 23.0 °C	0.187 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	0.960 J/cm @Temperature 23.0 °C	1.80 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	2.00 J @Temperature 23.0 °C	1.48 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D 3702 Modified
Coefficient of Friction, Static	0.15	0.15	ASTM D 3702 Modified
K (wear) Factor	10930 x 10 ⁻⁸ mm ³ /N-M	5425 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 µm/m-°C @Temperature -40.0 - 40.0 °C	41.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	74.0 µm/m-°C @Temperature -40.0 - 40.0 °C	41.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	73.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.6 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	73.8 µm/m-°C @Temperature -40.0 - 40.0 °C	41.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	88.0 °C Metric	170 °F English	Comments unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 °C	176 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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