

SABIC Innovative Plastics LNP Lubricomp ZI001 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* Lubricomp ZI001 is a compound based on Modified PPO containing Silicone. Characteristics are 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-ZI001-PPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D 792
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23 ^o C / 50% RH; ISO 62
	0.090 % @Time 86400 sec	0.090 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	37.0 MPa	5370 psi	5 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	35.7 %	35.7 %	Type I, 5 mm/min; ASTM D 638
	44.7 %	44.7 %	5 mm/min; ISO 527
Elongation at Yield	2.3 %	2.3 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
	2.50 GPa	363 ksi	50 mm/min; ASTM D 638
Flexural Strength	72.0 MPa	10400 psi	ISO 178

Flexural Modulus Mechanical Properties	2.38 GPa Metric	345 ksi English	2 mm/min; ISO 178 Comments
	2.52 GPa	365 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.55 J/cm @Temperature 23.0 Â°C	2.90 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	15.7 J/cm @Temperature 23.0 Â°C	29.4 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	14.0 kJ/mÂ² @Temperature 23.0 Â°C	6.66 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	135 kJ/mÂ² @Temperature 23.0 Â°C	64.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	118 Â°C	244 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	117 Â°C @Thickness 3.20 mm	243 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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