

SABIC Innovative Plastics LNP LUBRICOMP ZL003 PPE+PS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

LNP LUBRICOMP ZL003 is a compound based on PPE+PS Blend resin containing PTFE. Added features of this material include: internally Lubricated. Also known as LUBRICOMP ZL-4030

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZL003-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0083 cm/cm	0.0083 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0087 cm/cm	0.0087 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	46.0 MPa	6670 psi	ISO 527
Tensile Strength, Yield	46.0 MPa	6670 psi	5 mm/min; ISO 527
	46.0 MPa	6670 psi	ISO 527
	46.0 MPa	6670 psi	5 mm/min; ISO 527
Elongation at Break	47.0 MPa	6820 psi	ASTM D638
	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	ISO 527
	8.3 %	8.3 %	5 mm/min; ISO 527
	8.3 %	8.3 %	ISO 527

Mechanical Properties	8.9 % Metric	8.9 % English	ASTM D638 Comments
	8.9 %	8.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	8.1 %	8.1 %	ISO 527
	8.1 %	8.1 %	5 mm/min; ISO 527
	8.5 %	8.5 %	ASTM D638
	8.5 %	8.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638
	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
	75.0 MPa	10900 psi	ISO 178
Flexural Yield Strength	75.0 MPa	10900 psi	1.3 mm/min, 50 mm span; ASTM D790
	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.00 GPa	290 ksi	2 mm/min; ISO 178
	2.75 GPa	399 ksi	ASTM D790
	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.67 J/cm	5.00 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)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.28	0.28	ASTM D3702 Modified
Coefficient of Friction, Static	0.20	0.20	ASTM D3702 Modified
K (wear) Factor	22.2 x 10 ⁻⁸ mm ³ /N-M	11.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	130 Â°C	266 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	128 Â°C	262 Â°F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	119 Å°C	246 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	117 Å°C	243 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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