

SABIC Innovative Plastics LNP LUBRICOMP OL003A PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* LUBRICOMP* OL003A is a compound based on PPS - Branched resin containing 15% PTFE. Added features of this grade are: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OL003A-PPS-Branched.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23 ⁰ C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm @Time 86400 sec	0.0090 - 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	5 mm/min; ISO 527
	21.0 MPa	3050 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.60 %	0.60 %	Type I, 5 mm/min; ASTM D638
	0.60 %	0.60 %	5 mm/min; ISO 527
Tensile Modulus	3.36 GPa	487 ksi	1 mm/min; ISO 527
	3.59 GPa	521 ksi	50 mm/min; ASTM D638
Flexural Strength	56.0 MPa	8120 psi	ISO 178
	65.0 MPa	9430 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.32 GPa	482 ksi	2 mm/min; ISO 178
	3.87 GPa	561 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.130 J/cm	0.244 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	0.740 J/cm Metric	1.39 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	1.00 J @Temperature 23.0 Â°C	0.738 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	66.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	178 Â°C	352 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	175 Â°C @Thickness 3.20 mm	347 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	109 Â°C	228 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	108 Â°C @Thickness 3.20 mm	226 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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