

SABIC Innovative Plastics LNP Lubricomp UX06442 PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Lubricomp* UX06442 is a compound based on Polyphthalamide resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-UX06442-PPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.012 - 0.014 cm/cm @Time 86400 sec	0.012 - 0.014 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.015 - 0.017 cm/cm @Time 86400 sec	0.015 - 0.017 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	ISO 527
	81.0 MPa	11700 psi	ASTM D 638
Elongation at Break	1.5 %	1.5 %	ISO 527
	3.5 %	3.5 %	ASTM D 638
Tensile Modulus	2.677 GPa	388.3 ksi	1 mm/min; ISO 527
	3.95 GPa	573 ksi	50 mm/min; ASTM D 638
Flexural Strength	129 MPa	18700 psi	ASTM D 790
Flexural Modulus	3.41 GPa	495 ksi	ASTM D 790
Izod Impact, Notched	0.260 J/cm @Temperature 23.0 °C	0.487 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	5.23 J/cm @Temperature 23.0 °C	9.80 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
	8.00 kJ/m ²		

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D 3702 Modified
Coefficient of Friction, Static	0.21	0.21	ASTM D 3702 Modified
K (wear) Factor	14.1 x 10 ⁻⁸ mmÂ³/N-M	7.00 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	62.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	34.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÂ²- Â°F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	234 Â°C @Thickness 3.20 mm	453 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	106 Â°C	223 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	118 Â°C @Thickness 3.20 mm	244 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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