

SABIC Innovative Plastics LNP LUBRICOMP UX06425 PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* LUBRICOMP* UX06425 is a compound based on Polyphthalamide (PPA) containing 10% Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant, Hot Water Moldable and Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-UX06425-PPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption	0.310 %	0.310 %	50% RH, 24 hrs; ASTM D570
	0.500 %	0.500 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 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	85.0 MPa	12300 psi	5 mm/min; ISO 527
	89.0 MPa	12900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.4 %	1.4 %	5 mm/min; ISO 527
Tensile Modulus	6.42 GPa	931 ksi	1 mm/min; ISO 527
	6.61 GPa	959 ksi	50 mm/min; ASTM D638
Flexural Strength	126 MPa	18300 psi	ISO 178
	132 MPa	19100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.44 GPa	789 ksi	2 mm/min; ISO 178
	5.71 GPa	828 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact Notched Mechanical Properties	0.330 J/cm Metric	0.618 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	1.97 J/cm	3.69 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)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.37	0.37	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	75.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	289 Â°C	552 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	293 Â°C @Thickness 3.20 mm	559 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 Â°C	489 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China