

SABIC Innovative Plastics LNP LUBRICOMP UFL36AS PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* LUBRICOMP* UFL36AS is a Polyphthalamide (PPA) base resin containing 30% Glass Fiber, 15% PTFE. Added features of this material are: Heat Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-UFL36AS-PPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Time 86400 sec	0.0080 - 0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	189 MPa	27400 psi	Type I, 5 mm/min; ASTM D638
	192 MPa	27800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	189 MPa	27400 psi	Type I, 5 mm/min; ASTM D638
	192 MPa	27800 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Elongation at Yield	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	12.57 GPa	1823 ksi	1 mm/min; ISO 527
	15.42 GPa	2236 ksi	50 mm/min; ASTM D638
	15.42 GPa	2236 ksi	5 mm/min; ASTM D638
Flexural Strength	233 MPa	33800 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	24.2 MPa	35100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.6 GPa	1540 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.29 GPa	1637 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.09 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.48	0.48	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mm ³ /N-M	5.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	273 Â°C	523 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	277 Â°C @Thickness 3.20 mm	531 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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