

SABIC Innovative Plastics LNP LUBRICOMP RL4040HSUV PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RL4040HSUV is a compound based on Nylon 66 containing 20% PTFE. Added features of this grade include: Heat Stabilized, UV Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL4040HSUV-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Density	1.274 g/cc	0.04603 lb/in ³	ASTM D792
Moisture Absorption	0.750 %	0.750 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 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	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	7.9 %	7.9 %	Type I, 5 mm/min; ASTM D638
	9.6 %	9.6 %	5 mm/min; ISO 527
Elongation at Yield	5.1 %	5.1 %	5 mm/min; ISO 527
	5.2 %	5.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.79 GPa	405 ksi	1 mm/min; ISO 527
	2.88 GPa	418 ksi	5 mm/min; ASTM D638
Flexural Strength	97.0 MPa	14100 psi	ISO 178
Flexural Modulus	2.55 GPa	370 ksi	2 mm/min; ISO 178
	2.64 GPa	383 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.430 J/cm	0.143 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.83 J/cm	12.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.22	0.22	ASTM D3702 Modified
Coefficient of Friction, Static	0.11	0.11	ASTM D3702 Modified
K (wear) Factor	56.4 x 10 ⁻⁸ mm ³ /N-M	28.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	112 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	62.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	92.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	51.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	236 Â°C @Thickness 3.20 mm	457 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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