

SABIC Innovative Plastics LNP LUBRILOY DF206XXH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRILOY* DF206XXH is a compound based on Polycarbonate containing 30% Glass Fiber, Proprietary Lubricant. Added features of this grade include: Wear Resistant, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-DF206XXH-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.160 %	0.160 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D638
	112 MPa	16200 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	8.24 GPa	1200 ksi	1 mm/min; ISO 527
	8.72 GPa	1260 ksi	5 mm/min; ASTM D638
Flexural Strength	166 MPa	24100 psi	ISO 178
	169 MPa	24500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	174 MPa	25200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	2 mm/min; ISO 178
	7.83 GPa	1140 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	7.75 J/cm	14.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	26.0 J @Temperature 23.0 Â°C	19.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.49	0.49	ASTM D3702 Modified
Coefficient of Friction, Static	0.64	0.64	ASTM D3702 Modified
K (wear) Factor	54.4 x 10 ⁻⁸ mm ³ /N-M	27.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	494 x 10 ⁻⁸ mm ³ /N-M	245 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	51.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	28.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 Â°C @Thickness 3.20 mm	288 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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