

SABIC Innovative Plastics LNP LUBRICOMP DX98306H PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DX98306H is a compound based on Polycarbonate resin containing PTFE, Silicone. Added features of this material include: Internally Lubricated, Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX98306H-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0064 cm/cm	0.0064 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	8.5 g/10 min	8.5 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 ^o C	@Load 2.65 lb, Temperature 572 ^o F	
Melt Index of Compound	6.0 g/10 min	6.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 300 ^o C	@Load 2.65 lb, Temperature 572 ^o F	

Mechanical Properties	Metric	English	Comments
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Tensile Strength at Break Mechanical Properties	42.0 MPa Metric	6090 psi English	ASTM D638 Comments
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
	43.0 MPa	6240 psi	ISO 527
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	51.0 MPa	7400 psi	ISO 527
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	5 mm/min; ISO 527
	32.8 %	32.8 %	ASTM D638
	38.2 %	38.2 %	ISO 527
Elongation at Yield	5.3 %	5.3 %	ASTM D638
	5.3 %	5.3 %	ISO 527
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638
	2.14 GPa	310 ksi	1 mm/min; ISO 527
	5.09 GPa	738 ksi	5 mm/min; ASTM D638
Flexural Strength	71.0 MPa	10300 psi	ISO 178
Flexural Yield Strength	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D790
	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.10 GPa	305 ksi	ISO 178
	5.01 GPa	727 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.12 GPa	743 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.54 J/cm	2.89 ft-lb/in	ASTM D256
	0.690 J/cm	1.29 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	17.67 J/cm	33.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4, ISO 180/1A
Izod Impact, Unnotched (ISO)	180 kJ/mÂ²	85.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	34.0 J	25.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	32.0 J	23.6 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.37	0.37	ASTM D3702 Modified
Coefficient of Friction, Static	0.32	0.32	ASTM D3702 Modified
K (wear) Factor	42.3 x 10 ⁻⁸ mmÂ³/N-M	21.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	75.6 Âµm/m-Â°C	42.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	74.0 Âµm/m-Â°C	41.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	133 Â°C	271 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	132 Â°C	270 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	123 Â°C	253 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	122 Â°C	252 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	141 Â°C	286 Â°F	Rate B/50; ASTM D1525

Thermal Properties	141 Å°C Metric	286 Å°F English	Rate B/50: ISO 306 Comments
	145 Å°C	293 Å°F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 0.700 mm	HB @Thickness 0.0276 in	UL 94

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