

## SABIC Innovative Plastics LNP LUBRICOMP DX98306H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* LUBRICOMP\* DX98306H is a compound based on Polycarbonate resin containing Proprietary Fillers. Added features of this material include: Wear Resistant, Low Extractible.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX98306H-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX98306H-PC.php)

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ASTM D792
	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
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	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
	43.0 MPa	6240 psi	ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	51.0 MPa	7400 psi	ISO 527
Elongation at Break	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

Mechanical Properties	2.14 GPa Metric	310 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	71.0 MPa	10300 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched	1.54 J/cm	2.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.67 J/cm	33.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	180 kJ/m <sup>2</sup>	85.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
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 <sup>-8</sup> mm <sup>3</sup> /N-M	21.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

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

Thermal Properties	Metric	English	Comments
	122°C	250°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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