

SABIC Innovative Plastics LNP LUBRICOMP DX07404H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DX07404H is a compound based on Polycarbonate containing Proprietary Fillers. Added features of this grade are: Healthcare, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX07404H-PC.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	5 mm/min; ISO 527
	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	5 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	54 %	54 %	Type I, 5 mm/min; ASTM D638
	58 %	58 %	5 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	2.27 GPa	329 ksi	1 mm/min; ISO 527
	2.49 GPa	361 ksi	5 mm/min; ASTM D638
Flexural Strength	81.0 MPa	11700 psi	2 mm/min; ISO 178

Mechanical Properties	Metric (Pa)	English (psi)	Comments
Flexural Modulus	2.38 GPa	345 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.38 GPa	345 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	179 kJ/m ²	85.2 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 Åµm/m-Å°C	35.6 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	65.0 Åµm/m-Å°C	36.1 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	135 Å°C	275 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	135 Å°C @Thickness 3.20 mm	275 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 Å°C	257 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	124 Å°C @Thickness 3.20 mm	255 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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