

SABIC Innovative Plastics LNP LUBRICOMP DX09410H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DX09410H is a compound based on Polycarbonate resin containing Proprietary Fillers. Added features of this grade include: Healthcare, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DX09410H-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Moisture Absorption	0.190 %	0.190 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Index of Compound	5.0 g/10 min	5.0 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	
	22 g/10 min	22 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 330 ^o C	@Load 4.76 lb, Temperature 626 ^o F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	5 mm/min; ISO 527
	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	17.9 %	17.9 %	5 mm/min; ISO 527
	45.7 %	45.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.9 %	6.9 %	Type I, 5 mm/min; ASTM D638
	6.9 %	6.9 %	5 mm/min; ISO 527
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 2.29 GPa	English 332 ksi	Comments 5 mm/min; ASTM D538
Flexural Strength	78.0 MPa	11300 psi	ISO 178
	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	2.15 GPa	312 ksi	2 mm/min; ISO 178
	2.29 GPa	332 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.86 J/cm	3.48 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.3 J/cm	34.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	217 kJ/m ²	103 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	74.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	132 Â°C	270 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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