

SABIC Innovative Plastics LNP LUBRICOMP DFP32 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DFP32 is a compound based on Polycarbonate resin containing 10% Glass Fiber, 15% PTFE/Silicone. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFP32-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
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	
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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	5 mm/min; ISO 527
	73.0 MPa	10600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.4 %	3.4 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.17 GPa	605 ksi	1 mm/min; ISO 527
	4.18 GPa	606 ksi	5 mm/min; ASTM D638
Flexural Strength	121 MPa	17500 psi	ISO 178
	123 MPa	17800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	126 MPa	18300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.99 GPa	579 ksi	2 mm/min; ISO 178
	4.01 GPa	582 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	6.36 J/cm	11.9 ft-lb/in	ASTM D4812
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)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J @Temperature 23.0 °C	16.2 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 °C @Thickness 3.20 mm	295 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648

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