

SABIC Innovative Plastics LNP LUBRICOMP DBL32 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DBL32 is a compound based on Polycarbonate resin containing 10% Glass Beads and 15% PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DBL32-PC.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0096 cm/cm	0.0096 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
	38.0 MPa	5510 psi	Type I, 5 mm/min; ASTM D638
	38.0 MPa	5510 psi	ISO 527
	38.0 MPa	5510 psi	5 mm/min; ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ASTM D638
	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
	43.0 MPa	6240 psi	ISO 527
	43.0 MPa	6240 psi	5 mm/min; ISO 527
Elongation at Break	18.2 %	18.2 %	ISO 527
	18.2 %	18.2 %	5 mm/min; ISO 527

Mechanical Properties	22.3 % Metric	22.3 % English	ASTM D638 Comments
	22.3 %	22.3 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.1 %	5.1 %	ISO 527
	5.1 %	5.1 %	5 mm/min; ISO 527
	5.4 %	5.4 %	ASTM D638
	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638
	2.58 GPa	374 ksi	1 mm/min; ISO 527
Flexural Strength	69.0 MPa	10000 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
	2.40 GPa	348 ksi	2 mm/min; ISO 178
	2.75 GPa	399 ksi	ASTM D790
	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.92 J/cm	3.60 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.0 J/cm	28.1 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)	105 kJ/m ²	50.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	31.0 J	22.9 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	25.0 J	18.4 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.48	0.48	ASTM D3702 Modified
K (wear) Factor	280 x 10 ⁻⁸ mm ³ /N-M	139 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 μm/m-°C	29.4 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	54.0 μm/m-°C	30.0 μin/in-°F	ASTM E 831

Thermal Properties	@Temperature -40.0 - 40.0 °C Metric	@Temperature -40.0 - 104 °F English	Comments
CTE, linear, Transverse to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	139 °C	282 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	142 °C	288 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 °C	275 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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