

SABIC Innovative Plastics LNP LUBRICOMP DFL28EG PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL28EG is a compound based on Polycarbonate resin containing 40% Glass Fiber and 10% PTFE. Added features include: Internally Lubricated, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL28EG-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
	116 MPa	16800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
	116 MPa	16800 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	1.9 %	1.9 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.18 GPa	1476 ksi	1 mm/min; ISO 527
	11.02 GPa	1598 ksi	50 mm/min; ASTM D638
Flexural Strength	174 MPa	25200 psi	ISO 178
	176 MPa	25500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	176 MPa	25500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.78 GPa	1420 ksi	2 mm/min; ISO 178
	9.86 GPa	1430 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.27 J/cm	2.38 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.47 J/cm	12.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J @Temperature 23.0 °C	14.0 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.61	0.61	ASTM D3702 Modified
Coefficient of Friction, Static	0.57	0.57	ASTM D3702 Modified
K (wear) Factor	4.03 x 10 ⁻⁸ mm ³ /N-M	2.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	90.6 x 10 ⁻⁸ mm ³ /N-M	45.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	139 °C	282 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 °C @Thickness 3.20 mm	284 °F @Thickness 0.126 in	unannealed; ASTM D648

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