

SABIC Innovative Plastics LNP LUBRICOMP DFL28 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL28 is a compound based on Polycarbonate resin containing Glass Fiber, 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-DFL28-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0021 cm/cm	0.0021 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	ISO 527
	148 MPa	21500 psi	ASTM D638
Tensile Strength, Yield	145 MPa	21000 psi	ISO 527
	148 MPa	21500 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	12.93 GPa	1875 ksi	1 mm/min; ISO 527
	13.78 GPa	1999 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	206 MPa Metric	29900 psi English	ASTM D790 Comments
	216 MPa	31300 psi	ISO 178
Flexural Modulus	11.72 GPa	1700 ksi	ASTM D790
	11.8 GPa	1710 ksi	ISO 178
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.91 J/cm	16.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	57.0 kJ/m ²	27.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J	16.2 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.52	0.52	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	260 x 10 ⁻⁸ mm ³ /N-M	129 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 µm/m-°C	18.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	33.0 µm/m-°C	18.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	27.0 µm/m-°C	15.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	27.0 µm/m-°C	15.0 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)	146 °C	295 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 °C	293 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	142 °C	288 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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