

SABIC Innovative Plastics LNP LUBRICOMP DFP34 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFP34 is a compound based on Polycarbonate resin containing 20% Glass Fiber, 15% PTFE/Silicone. 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-DFP34-PC.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0036 cm/cm	0.0036 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0044 cm/cm	0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	ASTM D638
	104 MPa	15100 psi	
Tensile Strength, Yield	103 MPa	14900 psi	ASTM D638
	103 MPa	14900 psi	
Elongation at Break	2.5 %	2.5 %	ISO 527
	2.8 %	2.8 %	
Elongation at Yield	2.5 %	2.5 %	ISO 527
	2.8 %	2.8 %	
Tensile Modulus	6.74 GPa	978 ksi	1 mm/min; ISO 527

Mechanical Properties	6.89 GPa Metric	999 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	158 MPa	22900 psi	ASTM D790
	158 MPa	22900 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
	6.40 GPa	928 ksi	ISO 178
Izod Impact, Notched	1.38 J/cm	2.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.20 J/cm	13.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.51	0.51	ASTM D3702 Modified
Coefficient of Friction, Static	0.53	0.53	ASTM D3702 Modified
K (wear) Factor	218 x 10 ⁻⁸ mm ³ /N-M	108 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.8 µm/m-°C	26.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	47.0 µm/m-°C	26.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	36.0 µm/m-°C	20.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	36.0 µm/m-°C	20.0 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)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 °C	289 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	141 °C	286 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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