

SABIC Innovative Plastics LNP LUBRICOMP DFL34 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DFL34 is a compound based on Polycarbonate resin containing 20% Glass Fiber, 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-DFL34-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.160 %	0.160 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	89.0 MPa	12900 psi	5 mm/min; ISO 527
	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	94.0 MPa	13600 psi	50 mm/min; ISO 527
	97.0 MPa	14100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.5 %	3.5 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	2.9% Metric	2.9% English	5 mm/min; ISO 527 Comments
Tensile Modulus	6.50 GPa	943 ksi	1 mm/min; ISO 527
	6.86 GPa	995 ksi	50 mm/min; ASTM D638
Flexural Strength	143 MPa	20700 psi	ASTM D790
	153 MPa	22200 psi	ISO 178
Flexural Yield Strength	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.91 GPa	712 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.01 GPa	872 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.69 J/cm	3.17 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.80 J/cm	14.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	47.0 kJ/m ²	22.4 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	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.52	0.52	ASTM D3702 Modified
Coefficient of Friction, Static	0.67	0.67	ASTM D3702 Modified
K (wear) Factor	153 x 10 ⁻⁸ mm ³ /N-M	76.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 μm/m-°C	15.6 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	28.0 μm/m-°C	15.6 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	66.0 μm/m-°C	36.7 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	66.0 μm/m-°C	36.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	40.0 °C Metric	104 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	147 °C	297 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 °C @Thickness 3.20 mm	297 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 °C	291 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	143 °C @Thickness 3.20 mm	289 °F @Thickness 0.126 in	unannealed; ASTM D648

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