

SABIC Innovative Plastics LNP LUBRICOMP DFL34EH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DFL34EH is a compound based on Polycarbonate containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Easy Molding, Healthcare, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL34EH-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00020 - 0.00040 cm/cm @Time 86400 sec	0.00020 - 0.00040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	5 mm/min; ISO 527
	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	6.65 GPa	965 ksi	1 mm/min; ISO 527
	7.19 GPa	1040 ksi	50 mm/min; ASTM D638
Flexural Strength	145 MPa	21000 psi	1.3 mm/min, 50 mm span; ASTM D790
	150 MPa	21800 psi	ISO 178
Flexural Modulus	6.19 GPa	898 ksi	2 mm/min; ISO 178
	6.32 GPa	917 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	7.40 J/cm	13.9 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)	48.0 kJ/m ²	22.8 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	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.50	0.50	ASTM D3702 Modified
K (wear) Factor	26.2 x 10 ⁻⁸ mm ³ /N-M	13.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	179 x 10 ⁻⁸ mm ³ /N-M	89.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.4 µm/m-°C @Temperature -30.0 - 30.0 °C	20.8 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	63.0 µm/m-°C @Temperature -30.0 - 30.0 °C	35.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	295 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 °C @Thickness 3.20 mm	295 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 °C @Thickness 3.20 mm	288 °F @Thickness 0.126 in	unannealed; ASTM D648

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