

SABIC Innovative Plastics LNP Lubricomp DFP22H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFP22H is a compound based on Polycarbonate containing Glass Fiber and PTFE. Characteristics of this grade are: Internally Lubricated and Healthcare. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-DFP22H-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D 792
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.17 %	0.17 %	23°C / 50% RH; ISO 62
	0.12 %	0.12 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.0 MPa	11200 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	78.0 MPa	11300 psi	5 mm/min; ISO 527
	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D 638
	3.5 %	3.5 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	4.41 GPa	640 ksi	1 mm/min; ISO 527
	4.69 GPa	680 ksi	50 mm/min; ASTM D 638
Flexural Strength	126 MPa	18300 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	132 MPa	19100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	4.22 GPa	612 ksi	2 mm/min; ISO 178
	4.26 GPa	618 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.56 J/cm @Temperature 23.0 °C	2.92 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	8.39 J/cm @Temperature 23.0 °C	15.7 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	47.0 kJ/m ² @Temperature 23.0 °C	22.4 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603
	21.0 J @Temperature 23.0 °C	15.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D 3702 Modified
Coefficient of Friction, Static	0.51	0.51	ASTM D 3702 Modified
K (wear) Factor	16.1 x 10 ⁻⁸ mm ³ /N-M	8.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D 3702 Modified
	280 x 10 ⁻⁸ mm ³ /N-M	139 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 µm/m-°C @Temperature -30.0 - 30.0 °C	35.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
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 D 648
Deflection Temperature at 1.8 MPa (264 psi)	142 °C	288 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	143 °C Metric	289 °F English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTMD 648

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