

SABIC Innovative Plastics LNP Lubricomp DFP22 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* DFP22 is a Polycarbonate base resin containing glass fiber and PTFE/Silicone Lubricants. Characteristic of this grade is: Internally Lubricated. 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-DFP22-PC.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
	1.33 g/cc	0.0480 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.18 %	0.18 %	23°C / 50% RH; ISO 62
	0.11 % @Time 86400 sec	0.11 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D 955
	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	Type I, 5 mm/min; ASTM D 638
	71.0 MPa	10300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	73.0 MPa	10600 psi	Type I, 5 mm/min; ASTM D 638
	73.0 MPa	10600 psi	5 mm/min; ISO 527
Elongation at Break	4.3 %	4.3 %	5 mm/min; ISO 527
	4.9 %	4.9 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D 638
	3.4 %	3.4 %	5 mm/min; ISO 527
Tensile Modulus	4.18 GPa	606 ksi	1 mm/min; ISO 527
	4.45 GPa	645 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	122 MPa	17700 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric Pa	English	Comments ISO 178
	4.08 GPa	592 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.72 J/cm @Temperature 23.0 °C	3.22 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	8.11 J/cm @Temperature 23.0 °C	15.2 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	16.0 kJ/m ² @Temperature 23.0 °C	7.61 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ² @Temperature 23.0 °C	23.8 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
	20.0 J @Temperature 23.0 °C	14.8 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.45	0.45	ASTM D 3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D 3702 Modified
K (wear) Factor	12.1 x 10 ⁻⁸ mm ³ /N-M	6.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D 3702 Modified
	292 x 10 ⁻⁸ mm ³ /N-M	145 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.0 µm/m-°C @Temperature -30.0 - 30.0 °C	32.8 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
CTE, linear, Transverse to Flow	57.0 µm/m-°C @Temperature -30.0 - 30.0 °C	31.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 °C @Thickness 3.20 mm	293 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	139 °C Metric	282 °F English	Comments ;ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China