

SABIC Innovative Plastics LNP LUBRILLOY DF2041 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRILLOY* DF2041 is a compound based on Polycarbonate resin containing 20% Glass Fiber, Proprietary Lubricant. Added features include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILLOY-DF2041-PC.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.110 %	0.110 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
	101 MPa	14600 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	6.68 GPa	969 ksi	50 mm/min; ASTM D638
	6.83 GPa	991 ksi	1 mm/min; ISO 527
Flexural Strength	149 MPa	21600 psi	ISO 178
	153 MPa	22200 psi	ASTM D790
Flexural Modulus	6.27 GPa	909 ksi	ISO 178

Mechanical Properties	6.37 GPa Metric	924 ksi English	ASTM D790 Comments
Izod Impact, Notched	1.54 J/cm	2.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.03 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.43	0.43	ASTM D3702 Modified
Coefficient of Friction, Static	0.36	0.36	ASTM D3702 Modified
K (wear) Factor	115 x 10 ⁻⁸ mm ³ /N-M	57.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	92.0 °C @Thickness 3.20 mm	198 °F @Thickness 0.126 in	unannealed; ASTM D648

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