

SABIC Innovative Plastics LNP LUBRICOMP DP001E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DP001E is a Polycarbonate base resin containing 5% PTFE/Silicone. Added features are: Internally Lubricated, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DP001E-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.170 %	0.170 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	54.0 MPa	7830 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	38.4 %	38.4 %	Type I, 5 mm/min; ASTM D638
	48.3 %	48.3 %	5 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.13 GPa	309 ksi	1 mm/min; ISO 527
	2.24 GPa	325 ksi	50 mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	2.03 GPa	294 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	5.95 J/cm	11.1 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.6 J/cm	27.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	181 kJ/m ²	86.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	35.0 J @Temperature 23.0 Â°C	25.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	44.0 J	32.5 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.21	0.21	ASTM D3702 Modified
Coefficient of Friction, Static	0.11	0.11	ASTM D3702 Modified
K (wear) Factor	308 x 10 ⁻⁸ mm ³ /N-M	153 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	71.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	39.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	126 Â°C	259 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 Â°C @Thickness 3.20 mm	261 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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