

SABIC Innovative Plastics LNP LUBRICOMP DP0039EF PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DP0039EF is a compound based on Polycarbonate resin containing Silicone, PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DP0039EF-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Water Absorption at Saturation	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage, Flow	0.0068 cm/cm @Thickness 1.50 - 3.20 mm	0.0068 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0067 cm/cm @Thickness 1.50 - 3.20 mm	0.0067 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
Melt Flow	18.1 g/10 min @Load 2.16 kg, Temperature 300 Â°C	18.1 g/10 min @Load 4.76 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	ISO 527
	40.0 MPa	5800 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
	50.0 MPa	7250 psi	ISO 527
Elongation at Break	14.7 %	14.7 %	ASTM D638
	17.5 %	17.5 %	ISO 527
Elongation at Yield	5.5 %	5.5 %	ASTM D638
	5.5 %	5.5 %	ISO 527
Tensile Modulus	2.09 GPa	303 ksi	1 mm/min; ISO 527
	2.12 GPa	307 ksi	5 mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
	2.17 GPa	315 ksi	ISO 178
Izod Impact, Notched	3.02 J/cm	5.66 ft-lb/in	ASTM D256
Izod Impact, Unnotched	20.0 J/cm	37.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	129 kJ/m ²	61.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	23.0 J	17.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	61.0 J	45.0 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.17	0.17	ASTM D3702 Modified
K (wear) Factor	850 x 10 ⁻⁸ mm ³ /N-M	422 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)	127 °C	261 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	126 °C	259 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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