

SABIC Innovative Plastics LNP LUBRICOMP DP003EH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DP003EH is a compound based on Polycarbonate resin containing 15% PTFE/Silicone. Added features of this material include: Easy Molding, Internally Lubricated, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DP003EH-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.190 %	0.190 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm @Time 86400 sec	0.0060 - 0.0090 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm @Time 86400 sec	0.0070 - 0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
	46.0 MPa	6670 psi	5 mm/min; ISO 527
	46.0 MPa	6670 psi	ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	17 %	17 %	ASTM D638
	49 %	49 %	Type I, 5 mm/min; ASTM D638
	116 %	116 %	5 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	ASTM D638
	5.7 %	5.7 %	5 mm/min; ISO 527
	5.9 %	5.9 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	2.03 GPa	294 ksi	50 mm/min; ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ISO 178
	77.0 MPa	11200 psi	ASTM D790
Flexural Modulus	1.92 GPa	278 ksi	2 mm/min; ISO 178
	2.06 GPa	299 ksi	ASTM D790
	2.10 GPa	305 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.74 J/cm	8.88 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.1 J/cm	28.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	174 kJ/m ²	82.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	29.0 J @Temperature 23.0 Â°C	21.4 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.29	0.29	ASTM D3702 Modified
Coefficient of Friction, Static	0.15	0.15	ASTM D3702 Modified
K (wear) Factor	56.4 x 10 ⁻⁸ mm ³ /N-M	28.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	76.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.2 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)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	128 °C	262 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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