

SABIC Innovative Plastics LNP LUBRICOMP DL003EXJ PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DL003EXJ is a compound based on Polycarbonate containing 15% PTFE. Characteristics of this grade are Easy Molding, Low Extractable, Internally Lubricated, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL003EXJ-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.150 %	0.150 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	5 mm/min; ISO 527
	38.0 MPa	5510 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	17.3 %	17.3 %	Type I, 5 mm/min; ASTM D638
	21.8 %	21.8 %	5 mm/min; ISO 527
Elongation at Yield	5.4 %	5.4 %	5 mm/min; ISO 527
	5.6 %	5.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.98 GPa	287 ksi	1 mm/min; ISO 527
	2.09 GPa	303 ksi	50 mm/min; ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.8 J/cm	33.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	110 kJ/m ²	52.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	33.0 J @Temperature 23.0 °C	24.3 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	28.0 J	20.7 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.23	0.23	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	42.8 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
CTE, linear, Transverse to Flow	77.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	42.8 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	141 Å°C	286 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Å°C @Thickness 3.20 mm	286 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 Å°C	255 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	130 Å°C @Thickness 3.20 mm	266 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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