

SABIC Innovative Plastics LNP LUBRILOY DX08333 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP Lubriloy* DX08333 is an internally lubricated compound based on Lexan* Polycarbonate resin. Added features of this material include: ESD Safe, PTFE-free Wear & Friction solution and balanced mechanical performance

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-DX08333-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
	113 MPa	16400 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	7.30 GPa	1060 ksi	5 mm/min; ASTM D638
	7.31 GPa	1060 ksi	1 mm/min; ISO 527
Flexural Strength	99.0 MPa	14400 psi	ASTM D790
	113 MPa	16400 psi	ISO 178
Flexural Modulus	6.10 GPa	885 ksi	ASTM D790
	6.76 GPa	980 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.96 J/cm	5.55 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J	12.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Impact Test Mechanical Properties	10.0 J Metric	7.38 ft-lb English	Multiaxial Impact; ISO 6603 Comments
K (wear) Factor	161 x 10 ⁻⁸ mm ³ /N-M	80.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Åµm/m-Å°C	19.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	49.0 Åµm/m-Å°C	27.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Å°C	284 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	134 Å°C	273 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D257

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