

SABIC Innovative Plastics LNP LUBRICOMP DL002ER PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DL002ER is a compound based on Polycarbonate resin containing PTFE. Added features of this material include:
Internally Lubricated, Easy Molding, Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL002ER-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
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 cm/cm	0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0079 cm/cm	0.0079 in/in	ISO 294
	@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	46.0 MPa	6670 psi	ISO 527
	48.0 MPa	6960 psi	ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
	56.0 MPa	8120 psi	ISO 527
Elongation at Break	66.3 %	66.3 %	ASTM D638
	70.7 %	70.7 %	ISO 527
Elongation at Yield	5.7 %	5.7 %	ISO 527
	5.9 %	5.9 %	ASTM D638
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.20 GPa Metric	319 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	24.88 J/cm	46.61 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 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	40.0 J	29.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	44.0 J	32.5 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.24	0.24	ASTM D3702 Modified
Coefficient of Friction, Static	0.070	0.070	ASTM D3702 Modified
K (wear) Factor	68.5 x 10 ⁻⁸ mm ³ /N-M	34.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 μm/m-°C	41.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	75.6 μm/m-°C	42.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	72.0 μm/m-°C	40.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	72.0 μm/m-°C	40.0 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	135 °C	275 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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