

SABIC Innovative Plastics LNP LUBRILLOY D20001 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRILLOY* D20001 is a compound based on Polycarbonate resin containing Flame Retardant, Proprietary Lubricant. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILLOY-D20001-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0053 cm/cm	0.0053 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0057 cm/cm	0.0057 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	ISO 527
	60.0 MPa	8700 psi	ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	ISO 527
	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	6.5 %	6.5 %	ASTM D638
	6.7 %	6.7 %	ISO 527
Elongation at Yield	4.3 %	4.3 %	ISO 527
	4.5 %	4.5 %	ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.60 GPa Metric	377 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	102 MPa	14800 psi	ISO 178
	103 MPa	14900 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
	2.82 GPa	409 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.12 J/cm	30.20 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)	104 kJ/m ²	49.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	51.0 J	37.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.090	0.090	ASTM D3702 Modified
Coefficient of Friction, Static	0.22	0.22	ASTM D3702 Modified
K (wear) Factor	60.4 x 10 ⁻⁸ mm ³ /N-M	30.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.7 Åµm/m-Å°C	36.5 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	65.7 Åµm/m-Å°C	36.5 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	66.5 Åµm/m-Å°C	36.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	66.6 Åµm/m-Å°C	37.0 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)	97.0 Å°C	207 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Å°C	201 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 Å°C	192 Å°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

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