

LNP™ LUBRICOMP™ D20001 compound

Polycarbonate

SABIC Innovative Plastics

Message:

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

Also known as: LNP* LUBRICOMP* Compound D-FR ECO

Product reorder name: D20001

General Information			
Additive	Lubricant		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.60	%	ASTM D955
Across Flow : 24 hr	0.57	%	ISO 294-4
Flow : 24 hr	0.53	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2550	MPa	ASTM D638
--	2600	MPa	ISO 527-2/1
Tensile Strength			
Yield	67.3	MPa	ASTM D638
Yield	62.3	MPa	ISO 527-2
Break	60.2	MPa	ASTM D638
Break	54.5	MPa	ISO 527-2
Tensile Elongation			
Yield	4.5	%	ASTM D638
Yield	4.3	%	ISO 527-2
Break	6.5	%	ASTM D638
Break	6.7	%	ISO 527-2
Flexural Modulus			
--	2830	MPa	ASTM D790

--	2800	MPa	ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	102	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.29		
vs. Itself - Static	0.16		
Wear Factor - Washer	10.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ²	6.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ³	100	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	51.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	97.2	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	89.4	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	94.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	6.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.7E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	254 to 266	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	254 to 288	°C	
Mold Temperature	37.8 to 65.6	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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