

LNP™ LUBRILOY™ D20001 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRILOY* D20001 is a compound based on Polycarbonate resin containing Flame Retardant, Proprietary Lubricant. Added features of this material include: Flame Retardant.
Also known as: LNP* LUBRILOY* Compound D-FR ECO
Product reorder name: D20001

General Information			
Additive	Lubricant		
	Flame retardancy		
Features	Lubrication		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.50	%	ASTM D955
Transverse flow: 24 hours	0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.57	%	ISO 294-4
Flow direction: 24 hours	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
Fracture	60.2	MPa	ASTM D638
Fracture	54.5	MPa	ISO 527-2
Tensile Elongation			
Yield	4.5	%	ASTM D638
Yield	4.3	%	ISO 527-2
Fracture	6.5	%	ASTM D638
Fracture	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
With self-dynamics	0.091		ASTM D3702 Modified
With Self-Static	0.23		ASTM D3702 Modified
Wear Factor - Washer	30.0	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, 3.20mm	97.2	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	89.4	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	94.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	6.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 - 260	°C	
Middle Temperature	254 - 266	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	254 - 288	°C	
Mold Temperature	37.8 - 65.6	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		

2.	80*10*4
3.	80*10*4
4.	80*10*4 mm

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