

LNP™ LUBRILOY™ DX08333 compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

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

General Information			
UL YellowCard	E207780-101283847		
Additive	Lubricant		
Features	ESD Protection		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow	0.35	%	
Across Flow	0.50	%	
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7300	MPa	ASTM D638
--	7310	MPa	ISO 527-2/1
Tensile Strength			
Break ²	72.0	MPa	ASTM D638
Break	113	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.2	%	ASTM D638
Break	2.2	%	ISO 527-2/5
Flexural Modulus			
--	6100	MPa	ASTM D790
-- ⁴	6760	MPa	ISO 178
Flexural Strength			
--	99.0	MPa	ASTM D790
--	113	MPa	ISO 178
Wear Factor - Washer	80.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	60	J/m	ASTM D256
23°C ⁵	6.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	300	J/m	ASTM D4812
23°C ⁶	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	17.0	J	ASTM D3763
--	10.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁷	140	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	132	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	134	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	3.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	2.0 mm/min		
5.	80*10*4		
6.	80*10*4		
7.	80*10*4 mm		
8.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

