

LNP™ LUBRILOY™ Z20001 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRILOY Z20001 is a compound based on PPE+PS Blend resin containing Proprietary Lubricant. Added features of this material include: Wear Resistant, Flame Retardant.

Also known as: LNP* LUBRILOY* Compound Z-FR

Product reorder name: Z20001

General Information			
UL YellowCard	E121562-101345288		
Additive	Lubricant		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80 to 1.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.12	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2120	MPa	ASTM D638
--	2010	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Break ³	48.0	MPa	ASTM D638
Break	49.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/5
Break ⁵	40	%	ASTM D638
Break	24	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2130	MPa	ASTM D790

-- ⁷	1930	MPa	ISO 178
Flexural Stress	74.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.27		
vs. Itself - Static	0.19		
Wear Factor			ASTM D3702 Modified
Ring	0.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	54.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	420	J/m	ASTM D256
23°C ⁸	31	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2100	J/m	ASTM D4812
23°C ⁹	210	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	46.0	J	ASTM D3763
--	45.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	120	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	116	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	105	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	99.0	°C	ISO 75-2/Af
CLTE			
Flow : -30 to 30°C	8.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.8E-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	hr	
Rear Temperature	254 to 266	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	277 to 293	°C	
Mold Temperature	60.0 to 93.3	°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.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	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

