

LNP™ LUBRICOMP™ ZL003 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ZL003 is a compound based on PPE+PS resin containing 15% PTFE. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound ZL-4030

Product reorder name: ZL003

General Information			
UL YellowCard	E121562-101358189		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	0.90	%	ASTM D955
Across Flow : 24 hr	0.87	%	ISO 294-4
Flow : 24 hr	0.83	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
--	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield	47.6	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2
Break	46.9	MPa	ASTM D638
Break	46.0	MPa	ISO 527-2
Tensile Elongation			
Yield	8.5	%	ASTM D638
Yield	8.1	%	ISO 527-2
Break	8.9	%	ASTM D638
Break	8.3	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			
--	75.8	MPa	ASTM D790

--	75.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.28		
vs. Itself - Static	0.20		
Wear Factor - Washer	11.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	3.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C ³	17	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	129	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	130	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	118	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	119	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 to 288	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	299 to 310	°C	
Processing (Melt) Temp	299 to 304	°C	
Mold Temperature	82.2 to 110	°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		
4.	80*10*4 mm		
5.	80*10*4 mm		

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