

LNP™ LUBRICOMP™ ZL003 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ZL003 is a compound based on PPE+PS Blend resin containing PTFE. Added features of this material include:internally Lubricated. Also known as LUBRICOMP ZL-4030
Also known as: LNP* LUBRICOMP* Compound ZL-4030
Product Reorder name: ZL003

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
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 hours	0.80	%	ASTM D955
Transverse flow: 24 hours	0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.87	%	ISO 294-4
Flow direction: 24 hours	0.83	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2060	MPa	ASTM D638
--	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield	47.6	MPa	ASTM D638
Yield ²	47.0	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2, ISO 527-2/5
Fracture	46.9	MPa	ASTM D638
Fracture ³	46.0	MPa	ASTM D638
Fracture	46.0	MPa	ISO 527-2, ISO 527-2/5
Tensile Elongation			
Yield	8.5	%	ASTM D638
Yield ⁴	8.5	%	ASTM D638
Yield	8.1	%	ISO 527-2, ISO 527-2/5
Fracture	8.9	%	ASTM D638
Fracture ⁵	8.9	%	ASTM D638
Fracture	8.3	%	ISO 527-2, ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	2750	MPa	ASTM D790
--	2760	MPa	ASTM D790

--	2000	MPa	ISO 178
-- ⁷	2000	MPa	ISO 178
Flexural Strength			
--	75.8	MPa	ASTM D790
--	75.0	MPa	ISO 178
--	75.0	MPa	ISO 178
Yield, 50.0mm span ⁸	75.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.28		ASTM D3702 Modified
With Self-Static	0.20		ASTM D3702 Modified
Wear Factor - Washer	11.0	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 ⁹	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C ¹⁰	17	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	128	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹¹	130	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	117	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹²	119	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 - 288	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	299 - 310	°C	
Processing (Melt) Temp	299 - 304	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		

8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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Recommended distributors for this material

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