

LNP™ LUBRICOMP™ OL004 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP OL004 is a compound based on PPS - Linear resin containing 20% PTFE. Added features of this grade include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound OL-4040

Product reorder name: OL004

General Information			
UL YellowCard	E121562-101284448		
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Linear Polymer Structure		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption (24 hr, 50% RH)	0.021	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3010	MPa	ASTM D638
--	3420	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	53.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Break ³	53.0	MPa	ASTM D638
Break	58.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	4.6	%	ISO 527-2/5
Break ⁵	3.0	%	ASTM D638
Break	4.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2840	MPa	ASTM D790
-- ⁷	2890	MPa	ISO 178
Flexural Stress			
--	97.0	MPa	ISO 178

Yield, 50.0 mm Span ⁸	96.7	MPa	ASTM D790
Break, 50.0 mm Span ⁹	96.2	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.21		
vs. Itself - Static	0.080		
Wear Factor			ASTM D3702 Modified
Ring	0.400	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	84.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	33	J/m	ASTM D256
23°C ¹⁰	2.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ¹¹	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	2.70	J	ASTM D3763
--	0.900	J	ISO 6603-2
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 ¹²	179	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	99.9	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	102	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 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.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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