

LNP™ LUBRICOMP™ WL004 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* WL004 is a compound based on PBT resin containing 20% PTFE. Added features of this material include: Wear Resistant.

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

Product reorder name: WL004

General Information			
UL YellowCard	E121562-101282607		
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	2.1 to 2.4	%	ASTM D955
Across Flow : 24 hr	2.1 to 2.4	%	ASTM D955
Across Flow : 24 hr	2.1 to 2.3	%	ISO 294-4
Flow : 24 hr	2.4 to 2.5	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.051	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2410	MPa	ASTM D638
--	2450	MPa	ISO 527-2/1
Tensile Strength			
Break	49.0	MPa	ASTM D638
Break	45.0	MPa	ISO 527-2
Tensile Elongation			
Break	9.8	%	ASTM D638
Break	8.4	%	ISO 527-2
Flexural Modulus			
--	2410	MPa	ASTM D790
--	2390	MPa	ISO 178
Flexural Strength			
--	78.7	MPa	ASTM D790
--	77.1	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.33		
vs. Itself - Static	0.24		
Wear Factor - Washer	58.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ²	3.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	0.960	J	ASTM D3763
--	0.500	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	55.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	61.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	9.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	9.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°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		

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