

LNP™ LUBRICOMP™ WL004 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP WL004 is a compound based on Polybutylene Terephthalate resin containing PTFE. Added Features; Internally Lubricated

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

Product reorder name: WL004

General Information			
UL YellowCard	E45329-101282617		
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	18.0 - 21.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Flow	1.0 - 1.7	%	Internal method
Transverse flow	0.80 - 1.7	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	41.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	12	%	ISO 527-2/5
Flexural Modulus ¹			ISO 178
--	2200	MPa	ISO 178
60°C	800	MPa	ISO 178
100°C	500	MPa	ISO 178
Flexural Stress			ISO 178
--	68.0	MPa	ISO 178
60°C	21.0	MPa	ISO 178
100°C	14.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.33		ASTM D3702 Modified
With Self-Static	0.25		ASTM D3702 Modified
Flexural Strain at Break ²			ISO 178
--	6.0	%	ISO 178
60°C	7.0	%	ISO 178
100°C	7.0	%	ISO 178
Wear Factor - Washer	58.0	10 ⁻¹⁰ in ⁴ 5-min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	153	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	60.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.1E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	238 - 266	°C	
Mold Temperature	82.2 - 98.9	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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