

LNP™ LUBRICOMP™ WG003 compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP WG003 is a compound based on Polybutylene Terephthalate resin contain Graphite. Added features include: Internally Lubricated.

General Information			
Additive	Graphite Powder Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.7	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	ISO 527-2/5
Flexural Modulus ¹	3200	MPa	ISO 178
Flexural Stress	83.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	179	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	71.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	8.1E-5	cm/cm/°C	
Transverse : 23 to 60°C	9.7E-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.	2.0 mm/min
2.	80*10*4
3.	80*10*4
4.	80*10*4 mm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

