

LNP™ LUBRICOMP™ WFI14 compound

Polybutylene Terephthalate
SABIC Innovative Plastics Europe

Message:

LNP* Lubricomp* WFI14 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber and silicone. Added Features include: internally lubricated.
Also known as: LNP* LUBRICOMP* Compound WFI14
Product reorder name: WFI14

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Silicone Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30 to 0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	98.0	MPa	
Break	99.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	4.1	%	
Break	4.3	%	
Flexural Modulus ¹	5600	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	149	MPa	
-- ⁴	126	MPa	
Coefficient of Friction (vs. Itself - Dynamic)	0.36		ASTM D3702 Modified
Flexural Strain at Break ⁵	4.3	%	ISO 178
Wear Factor - Washer	113	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸ (0.45 MPa, Unannealed, 64.0 mm Span)	217	°C	ISO 75-2/Bf
CLTE			ISO 11359-2

Flow : 23 to 60°C	3.3E-5	cm/cm/°C
Transverse : 23 to 60°C	1.3E-4	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.	2.0 mm/min	
3.	Break	
4.	Yield	
5.	2 mm/min	
6.	80*10*4	
7.	80*10*4	
8.	80*10*4 mm	

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