

LNP™ LUBRICOMP™ WX12001J compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LUBRICOMP* WX12001J is an internally lubricated PBT compound with excellent wear and friction properties designed for Healthcare applications.

General Information			
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Uses	Medical/Healthcare Applications		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	25.0	cm ³ /10min	ISO 1133
Water Absorption ¹ (23°C, 24 hr)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	56.0	MPa	
Break	54.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	10	%	
Break	13	%	
Flexural Modulus ²	2300	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength ⁴ (23°C)	3.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	47	kJ/m ²	ISO 180/1U
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% RH
2. 2.0 mm/min
3. 80*10*4 sp=62mm
4. 80*10*4
5. 80*10*4

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