

LNP™ LUBRICOMP™ WX07423H compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

Health care grade, PTFE and silicone lubricated

Also known as: LNP* LUBRICOMP* Compound PDX-W-07423 HC

Product reorder name: WX07423H

General Information			
Additive	PTFE + Silicone Lubricant		
Features	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	62	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.6 to 2.8	%	
Across Flow : 24 hr	2.5 to 2.7	%	
Water Absorption (24 hr, 50% RH)	0.075	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2550	MPa	ASTM D638
--	2680	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	43.5	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/5
Break ³	43.0	MPa	ASTM D638
Break	45.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	11	%	ASTM D638
Yield	18	%	ISO 527-2/5
Break ⁵	14	%	ASTM D638
Break	19	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2300	MPa	ASTM D790
-- ⁷	2400	MPa	ISO 178
Flexural Stress			
--	74.5	MPa	ISO 178
Yield, 50.0 mm Span ⁸	74.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.33		
vs. Itself - Static	0.24		
Wear Factor - Washer	5.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	30	J/m	ASTM D256
23°C ⁹	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ¹⁰	44	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	55.0	°C	ASTM D648
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		

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