

LNP™ LUBRICOMP™ WFL34H compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* WFL34H is a compound based on PBT resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Healthcare.
Also known as: LNP* LUBRICOMP* Compound WFL-4034 HC
Product reorder name: WFL34H

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.70	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8750	MPa	ASTM D638
--	8460	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	123	MPa	ASTM D638
Yield	121	MPa	ISO 527-2/5
Break	123	MPa	ASTM D638
Break	121	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	2.8	%	ASTM D638
Yield	2.7	%	ISO 527-2/50
Break	2.8	%	ASTM D638
Break	2.7	%	ISO 527-2/50
Flexural Modulus			
--	6840	MPa	ASTM D790

-- ⁴	7510	MPa	ISO 178
Flexural Strength			
--	176	MPa	ASTM D790
--	182	MPa	ISO 178
Yield, 50.0 mm Span ⁵	177	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.48		
vs. Itself - Static	0.47		
Wear Factor - Washer	35.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	88	J/m	ASTM D256
23°C ⁶	9.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	820	J/m	ASTM D4812
23°C ⁷	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.60	J	ASTM D3763
--	3.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	223	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	223	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	209	°C	ISO 75-2/Af
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.	2.0 mm/min		
5.	1.3 mm/min		

6.	80*10*4
7.	80*10*3
8.	80*10*4 mm
9.	80*10*4 mm

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