

LNP™ LUBRICOMP™ PFL38S compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* PFL38S is a compound based on PA 6 resin, containing Glass fiber, PTFE. Added features include: Internally Lubricated, Heat Stabilized

Also known as: LNP* LUBRICOMP* Compound PFL-4038 HS

Product reorder name: PFL38S

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant heat stabilizer		
Features	Thermal Stability Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.30	%	Internal method
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ISO 527-2/1
Tensile Stress (Break)	172	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	11600	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	251	MPa	ISO 178
-- ⁴	244	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.63		ASTM D3702 Modified
Flexural Strain at Break ⁵	3.6	%	ISO 178
Wear Factor - Washer	8.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶ (23°C)	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	65	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, unannealed, 64.0mm span	216	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	203	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2

Flow: 23 to 60°C	3.3E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	9.2E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	249 - 260	°C	
Middle Temperature	266 - 277	°C	
Front Temperature	277 - 288	°C	
Processing (Melt) Temp	266 - 277	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	30 - 60	rpm	

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |
| 3. | Yield |
| 4. | Break |
| 5. | 2 mm/min |
| 6. | 80*10*4 |
| 7. | 80*10*4 |
| 8. | 80*10*4 mm |

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