

LNP™ LUBRICOMP™ PFI12R compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP LUBRICOMP PFI12R is a compound based on Nylon 6 resin containing 10% Glass Fiber, 2% Silicone. Added features of this material include: Wear Resistant, Mold Release.

Also known as: LNP* LUBRICOMP* Compound PFL-4412 MR

Product reorder name: PFI12R

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Mold Release		
	Silicone Lubricant (2%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow (24 hr)	0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4960	MPa	ASTM D638
Tensile Strength (Break)	105	MPa	ASTM D638
Tensile Elongation (Break)	3.2	%	ASTM D638
Flexural Modulus	5250	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	710	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	203	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	277 to 288	°C	
Processing (Melt) Temp	266 to 277	°C	

Mold Temperature	82.2 to 93.3	°C
Back Pressure	0.344 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE

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| 1. | 50 mm/min |
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Recommended distributors for this material

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