

LNP™ LUBRICOMP™ ABL12 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* ABL12 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% Glass Bead and 5% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound ABL-4012

Product reorder name: ABL12

General Information			
Filler / Reinforcement	Glass Bead,10% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10	%	
Across Flow : 24 hr	0.20	%	
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2590	MPa	ASTM D638
--	2280	MPa	ISO 527-2/1
Tensile Strength			
Yield	33.1	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2
Break	31.7	MPa	ASTM D638
Break	31.0	MPa	ISO 527-2
Tensile Elongation			
Break	15	%	ASTM D638
Break	28	%	ISO 527-2
Flexural Modulus			
--	2390	MPa	ASTM D790
--	2280	MPa	ISO 178
Flexural Strength			
--	62.1	MPa	ASTM D790
--	59.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.39		
vs. Itself - Static	0.44		
Wear Factor - Washer	125	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ²	8.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	560	J/m	ASTM D4812
23°C ³	33	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	80.6	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	88.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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