

LNP™ STAT-LOY™ PF306 compound

Polyamide 6
SABIC Innovative Plastics

Message:

LNP STAT-LOY PF306 is a compound based on Nylon 6 resin containing 30% Glass Fiber. Added feature of this grade includes: Antistat.
Also known as: LNP* STAT-LOY* Compound PF-30
Product reorder name: PF306

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Antistatic		
Features	Antistatic		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.82	%	ISO 294-4
Flow : 24 hr	0.28	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	5.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	7480	MPa	ISO 527-2/1
Tensile Strength			
Yield	93.8	MPa	ASTM D638
Yield	83.0	MPa	ISO 527-2
Break	93.8	MPa	ASTM D638
Break	83.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.7	%	ASTM D638
Yield	2.8	%	ISO 527-2
Break	2.8	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790
--	6000	MPa	ISO 178
Flexural Strength			
--	96.5	MPa	ASTM D790
--	106	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C ²	7.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	960	J/m	ASTM D4812
23°C ³	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	17.0	J	ASTM D3763
--	6.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	203	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	201	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	185	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	182	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.2E-4	cm/cm/°C	
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.0 to 11	ohms	ASTM D257
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			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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