

LNP™ STAT-LOY™ AF306 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics Asia Pacific

Message:

LNP* Stat-loy* AF306 is a compound based on Acrylonitrile Butadiene Styrene resin containing Glass Fiber. Added features of this material include: Antistat.

Also known as: LNP* STAT-LOY* Compound AF-30

Product reorder name: AF306

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Antistatic		
Features	Antistatic		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.29	g/cm ³	ASTM D792
--	1.28	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.45	%	ISO 294-4
Flow : 24 hr	0.30	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	3.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6890	MPa	ASTM D638
--	6010	MPa	ISO 527-2/1
Tensile Strength			
Yield	38.6	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2
Break	38.6	MPa	ASTM D638
Break	43.0	MPa	ISO 527-2
Tensile Elongation			
Yield	1.0	%	ASTM D638
Yield	1.1	%	ISO 527-2
Break	1.0	%	ASTM D638
Break	1.1	%	ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790
--	5700	MPa	ISO 178

Flexural Strength			
--	48.3	MPa	ASTM D790
--	63.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	250	J/m	ASTM D4812
23°C ³	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.90	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	102	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	103	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	95.6	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	71.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.1E-4	cm/cm/°C	
Transverse : -40 to 40°C	4.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	204 to 216	°C	
Processing (Melt) Temp	199 to 210	°C	
Mold Temperature	10.0 to 48.9	°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		
5.	80*10*4 mm		

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