

LNP™ STAT-LOY™ AF3009 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-LOY AF3009 is a compound based on ABS resin containing 10% Glass Fiber. Added features of this material include: Antistatic, Flame Retardant.

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

Product reorder name: AF3009

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Antistatic		
Features	Antistatic		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.80 to 1.0	%	ASTM D955
Across Flow : 24 hr	0.90 to 1.1	%	ASTM D955
Across Flow : 24 hr	1.0	%	ISO 294-4
Flow : 24 hr	0.93	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	2.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4140	MPa	ASTM D638
--	3620	MPa	ISO 527-2/1
Tensile Strength			
Yield	42.1	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2
Break	42.1	MPa	ASTM D638
Break	42.0	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	1.8	%	
Break	1.9	%	
Flexural Modulus			
--	3450	MPa	ASTM D790
--	3200	MPa	ISO 178
Flexural Strength			
--	55.2	MPa	ASTM D790
--	61.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ²	3.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	220	J/m	ASTM D4812
23°C ³	15	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.80	J	ASTM D3763
--	1.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	96.7	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	98.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	87.2	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	90.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	9.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	6.1E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	6.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
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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