

LNP™ STAT-LOY™ A30009 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-LOY A30009 is a compound based on ABS. Added features of this material include: Antistatic, Flame Retardant.
Also known as: LNP* STAT-LOY* Compound A-FR
Product reorder name: A30009

General Information			
UL YellowCard	E121562-101344712		
Additive	Antistatic		
Features	Antistatic		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.80 to 1.0	%	ASTM D955
Across Flow : 24 hr	0.88	%	ISO 294-4
Flow : 24 hr	0.79	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	2.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
--	1720	MPa	ISO 527-2/1
Tensile Strength			
Yield	32.4	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2
Break	24.1	MPa	ASTM D638
Break	28.0	MPa	ISO 527-2
Tensile Elongation			
Yield	3.8	%	ASTM D638
Yield	3.5	%	ISO 527-2
Break	36	%	ASTM D638
Break	15	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			

--	41.4	MPa	ASTM D790
--	47.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1700	J/m	ASTM D4812
23°C ³	140	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	14.7	J	ASTM D3763
--	4.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	95.6	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	94.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	81.1	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	81.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.1E-4	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	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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