LNP™ STAT-LOY™ A30009 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-LOY A30009 is a compound based on Acrylonitrile Butadiene Styrene resin containing Flame Retardant. Added features of this material include: Antistat, Flame Retardant.
Also known as: LNP* STAT-LOY* Compound A-FR
Product reorder name: A30009

General Information	
Additive	Antistatic property Flame retardancy
Features	Antistatic property Flame retardancy
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.70 - 0.90	%	ASTM D955
Transverse flow: 24 hours	0.80 - 1.0	%	ASTM D955
Vertical flow direction: 24 hours	0.88	%	ISO 294-4
Flow direction: 24 hours	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
Fracture	24.1	MPa	ASTM D638
Fracture	28.0	MPa	ISO 527-2
Tensile Elongation			
Yield	3.8	%	ASTM D638
Yield	3.5	%	ISO 527-2
Fracture	36	%	ASTM D638
Fracture	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/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1700	J/m	ASTM D4812
23°C [3]	140	kJ/m²	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, 3.20mm	95.6	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	94.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	81.1	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	81.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -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 - 1.0E+11	ohms	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 - 0.10	%	
Rear Temperature	182 - 193	°C	
Middle Temperature	193 - 204	°C	
Front Temperature	204 - 216	°C	
Processing (Melt) Temp	199 - 210	°C	
Mold Temperature	10.0 - 48.9	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 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

Recommended distributors for this material

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