

Product Texts

LNP STAT-LOY AF3009 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% glass fiber. Added features of this grade include: Permanently Anti-Static, Flame Retardant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.9	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3620	MPa	ISO 527
Yield stress	43	MPa	ISO 527
Yield strain	1.8	%	ISO 527
Stress at break	42	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	3200	MPa	ISO 178
Flexural strength	61	MPa	ISO 178
Izod impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4130	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Tensile Strength at Break	42	MPa	ASTM D 638
Elongation at Yield	1.8	%	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	3450	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	224	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	98	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	62	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	94	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	96	°C	ASTM D 648
DTUL @ 264 psi	87	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E12	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1310	kg/m ³	ISO 1183
Water Absorption, 24hr	2	%	ASTM D 570
Density	1310	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	200 - 210	°C	-
Mold temperature	10 - 50	°C	-

LNP™ STAT-LOY™ Compound AF3009

ABS-GF10

Saudi Basic Industries Corporation (SABIC)

Zone 1	180 - 195	°C	-
Zone 2	195 - 205	°C	-
Zone 3	205 - 215	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific