

Product Texts

LNP STAT-LOY PF306 compound is based on Nylon 6 resin containing 30% glass fiber. Added features of this grade include: Permanently Anti-Static.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7470	MPa	ISO 527
Yield stress	83	MPa	ISO 527
Yield strain	2.7	%	ISO 527
Stress at break	83	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	6000	MPa	ISO 178
Flexural strength	106	MPa	ISO 178
Izod impact strength, +23°C, 4mm	45	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7580	MPa	ASTM D 638
Tensile Strength at Yield	93	MPa	ASTM D 638
Tensile Strength at Break	93	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	5510	MPa	ASTM D 790
Flexural Strength	96	MPa	ASTM D 790
Izod Impact notched, 1/8 in	101	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	955	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	182	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	201	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	202	°C	ASTM D 648
DTUL @ 264 psi	185	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E11	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1390	kg/m ³	ISO 1183
Water Absorption, 24hr	5.1	%	ASTM D 570
Density	1390	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	265 - 275	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	250 - 260	°C	-

LNP™ STAT-LOY™ Compound PF306

PA6-GF30

Saudi Basic Industries Corporation (SABIC)

Zone 2	265 - 275	°C	-
Zone 3	275 - 290	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific