LNP™ STAT-LOY™ Compound W3000XXJ

PBT — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-LOY W3000XXJ compound is based on Polybutylene Terephthalate (PBT) resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static, Colorable, Healthcare, Low Extractables.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**3**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**3**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1880**	MPa	ISO 527
Yield strain	**8.5**	%	ISO 527
Stress at break	**42**	MPa	ISO 527
Strain at break	**9.6**	%	ISO 527
Flexural modulus	**1890**	MPa	ISO 178
Flexural strength	**61**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**89**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**5**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**1930**	MPa	ASTM D 638
Tensile Strength at Break	**41**	MPa	ASTM D 638
Elongation at Break	**4.3**	%	ASTM D 638
Flexural Modulus	**1940**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**61**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**1400**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**54**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**139**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**115**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**128**	E-6/K	ASTM D 696
DTUL @ 66 psi	**157**	°C	ASTM D 648
DTUL @ 264 psi	**55**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**1E13**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.37**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.23**	%	ASTM D 570
Density	**1270**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**220 - 230**	°C	-
Mold temperature	**10 - 50**	°C	-
Zone 1	**205 - 215**	°C	-
Zone 2	**215 - 225**	°C	-
Zone 3	**220 - 230**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America, Europe, Asia Pacific