LNP™ STAT-LOY™ Compound M3000C

PP — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-LOY M3000C compound is based on unfilled Polypropylene (PP) resin containing proprietary fillers. Added features of this grade include: LNP Clean Compounding Technology, Permanently Anti-Static.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**1.5**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**1.5**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1180**	MPa	ISO 527
Stress at break	**24**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
Flexural modulus	**1960**	MPa	ISO 178
Flexural strength	**38**	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	**6**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**760**	MPa	ASTM D 638
Tensile Strength at Break	**18**	MPa	ASTM D 638
Elongation at Break	**689**	%	ASTM D 638
Flexural Modulus	**860**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**75**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**49**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**75**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**128**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**131**	E-6/K	ASTM D 696
DTUL @ 66 psi	**74**	°C	ASTM D 648
DTUL @ 264 psi	**49**	°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
Humidity absorption	**0.16**	%	Sim. to ISO 62
Density	**930**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.16**	%	ASTM D 570
Density	**930**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**70 - 80**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**190 - 200**	°C	-
Mold temperature	**30 - 50**	°C	-
Zone 1	**180 - 195**	°C	-
Zone 2	**195 - 205**	°C	-
Zone 3	**200 - 210**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America, Europe, Asia Pacific