LNP™ STAT-LOY™ Compound M3000 - Americas

PP — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-LOY M3000 compound is based on unfilled Polypropylene (PP) resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.4**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.3**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**1.4**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**1.3**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1350**	MPa	ISO 527
Yield stress	**28**	MPa	ISO 527
Yield strain	**8**	%	ISO 527
Strain at break	**50**	%	ISO 527
Flexural modulus	**1360**	MPa	ISO 178
Flexural strength	**32**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**N**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**10**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**1390**	MPa	ASTM D 638
Tensile Strength at Yield	**28**	MPa	ASTM D 638
Elongation at Yield	**9.6**	%	ASTM D 638
Elongation at Break	**47**	%	ASTM D 638
Flexural Modulus	**1440**	MPa	ASTM D 790
Flexural Strength	**40**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**69**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**N**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**59**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**103**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	**100**	°C	ASTM D 648
DTUL @ 264 psi	**56**	°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	**950**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.85**	%	ASTM D 570
Density	**950**	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