LNP™ COLORCOMP™ Compound M1000S

PP — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP COLORCOMP M1000S compound is based on Polypropylene (PP) resin. Added features of this grade include: Heat Stabilised.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.6**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.6**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**6**	g/10min	ASTM D 1238
Temperature	**230**	°C	-
Load	**2.16**	kg	-
Mold Shrinkage, MD	**1.6**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**1.6**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2160**	MPa	ISO 527
Yield stress	**28**	MPa	ISO 527
Yield strain	**7**	%	ISO 527
Stress at break	**26**	MPa	ISO 527
Strain at break	**40**	%	ISO 527
Flexural modulus	**1600**	MPa	ISO 178
Flexural strength	**30**	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	**3**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**94**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**130**	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	**1120**	kg/m³	ISO 1183
Density	**1130**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**215 - 220**	°C	-
Mold temperature	**30 - 50**	°C	-
Zone 1	**195 - 205**	°C	-
Zone 2	**200 - 210**	°C	-
Zone 3	**205 - 215**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive