LNP™ COLORCOMP™ Compound A1000F

ABS — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP COLORCOMP A1000F compound is based on unfilled Acrylonitrile Butadiene Styrene (ABS) resin. Added features of this grade include: Superior Molding.

UL Yellow Card Link E207780-103938869

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**18**	g/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
ASTM Data			
Melt Flow Index, MFI	**5.6**	g/10min	ASTM D 1238
Temperature	**230**	°C	-
Load	**3.8**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2370**	MPa	ISO 527
Yield stress	**47**	MPa	ISO 527
Yield strain	**2.6**	%	ISO 527
Stress at break	**35**	MPa	ISO 527
Strain at break	**25**	%	ISO 527
Flexural modulus	**2200**	MPa	ISO 178
Charpy notched impact strength, +23°C	**26**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**9**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	**22**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	**8**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2270**	MPa	ASTM D 638
Tensile Strength at Yield	**44**	MPa	ASTM D 638
Tensile Strength at Break	**33**	MPa	ASTM D 638
Elongation at Yield	**2**	%	ASTM D 638
Elongation at Break	**24**	%	ASTM D 638
Flexural Modulus	**2300**	MPa	ASTM D 790
Rockwell Hardness	**R 112**	-	ASTM D 785
Izod Impact notched, 1/8 in	**320**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**81**	°C	ISO 75-1/-2
Vicat softening temperature, B	**98**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**100**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
DTUL @ 66 psi	**94**	°C	ASTM D 648
DTUL @ 264 psi	**80**	°C	ASTM D 648
Vicat Temperature	**99**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	**1040**	kg/m³	ISO 1183
Density	**1040**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 95**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**220 - 260**	°C	-

Mold temperature	**50 - 70**	°C	-
Zone 1	**190 - 210**	°C	-
Zone 2	**205 - 225**	°C	-
Zone 3	**215 - 240**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific