

Product Texts

LNP COLORCOMP A1000FXB compound is based on unfilled Acrylonitrile Butadiene Styrene (ABS) resin. Added features of this grade include: Healthcare, Biocompatible (ISO10993), Low Extractables, Gamma & EtO Sterilizable, Superior Molding.

UL Yellow Card Link [E121562-103956405](https://www.ulprospector.com/abs/121562-103956405)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	19	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			
ISO Data			
Tensile Modulus	2530	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	2.6	%	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	24.8	%	ISO 527
Flexural modulus	2410	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	23	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	8	kJ/m ²	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	2340	MPa	ASTM D 790
Izod Impact notched, 1/8 in	320	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	133	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	80	°C	ISO 75-1/-2
Vicat softening temperature, B	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	98	°C	ASTM D 1525
Other properties			
Density	1050	kg/m ³	ISO 1183
Density	1050	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
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	-

LNP™ COLORCOMP™ Compound A1000FXB

ABS

Saudi Basic Industries Corporation (SABIC)

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

Special Characteristics

Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization

Certifications

US Pharmacopeia Class VI Approved

Applications

Medical

Regional Availability

North America, Europe, Asia Pacific