

**Product Texts**

LNP COLORCOMP N1000EXB compound is based on unfilled Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend. Added features of this grade include: Good Flow and Excellent Impact, Healthcare, Low Extractables, Biocompatible (ISO10993 or USP Class VI).

UL Yellow Card Link [E121562-103956764](https://www.ul.com/Products/Plastics/Polycarbonate/ABS/Colorcomp-N1000EXB)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	22	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	24	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2300	MPa	ISO 178
Charpy notched impact strength, +23°C, 3mm	50	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	30	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 3mm	50	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	30	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 115	-	ISO 2039-2
Ball indentation hardness	96	MPa	ISO 2039-1
<b>ASTM Data</b>			
Tensile Modulus	2270	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	47	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Taber Abrasion Resistance	63	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	580	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	480	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	126	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	128	°C	ISO 306
Coeff. of linear therm. expansion, parallel	80	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Thermal Conductivity	0.2	W/(m K)	DIN 52616
<b>ASTM Data</b>			
DTUL @ 264 psi	112	°C	ASTM D 648
Vicat Temperature	130	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	2.7	-	IEC 62631-2-1

**LNP™ COLORCOMP™ Compound N1000EXB**  
(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

Dissipation factor, 1MHz	<b>70</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
Electric strength	<b>35</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>250</b>	-	IEC 60112

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>0.6</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
Density	<b>1150</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1150</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>100 - 110</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>260 - 290</b>	°C	-
Mold temperature	<b>60 - 90</b>	°C	-
Feed temperature	<b>60 - 80</b>	°C	-
Zone 1	<b>230 - 260</b>	°C	-
Zone 2	<b>250 - 290</b>	°C	-
Zone 3	<b>250 - 290</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific