

Product Texts

LNP COLORCOMP D1000EXJ compound is based on unfilled Polycarbonate (PC) resin. Added features of this grade include: Healthcare, Food Contact Compliant and UL rated HB.

UL Yellow Card Link [E121562-104419596](https://www.ul.com/yellow-card/E121562-104419596)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	10.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2390	MPa	ISO 527
Yield stress	61	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	73	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2250	MPa	ISO 178
Charpy impact strength, +23°C	82	kJ/m ²	ISO 179/1eU
Izod notched impact strength, +23°C, 4mm	71	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2300	MPa	ASTM D 638
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	68	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	2340	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	801	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	220	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	3200	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	127	°C	ISO 75-1/-2
Vicat softening temperature, B	143	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	145	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
DTUL @ 66 psi	137	°C	ASTM D 648
DTUL @ 264 psi	126	°C	ASTM D 648
Vicat Temperature	154	°C	ASTM D 1525
Thermal Conductivity, solid state	0.0274	W/(m K)	ASTM C 177
Specific Heat	1250	J/(kg K)	ASTM C 351

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dissipation Factor, 60 Hz	0.0009	-	ASTM D 150
Dissipation Factor, 1 MHz	0.01	-	ASTM D 150
Dielectric Constant, 60 Hz	3.17	-	ASTM D 150

LNP™ COLORCOMP™ Compound D1000EXJ

PC

Saudi Basic Industries Corporation (SABIC)

Dielectric Constant, 1 MHz	2.96	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	0.26	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	270 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Certifications

Food contact