

**Product Texts**

LNP COLORCOMP D1000RFJ compound is based on unfilled Polycarbonate (PC) resin. Added features of this grade include: Healthcare, Low Extractable, Food Contact Compliant, Mold Release and UL Rated HB.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	10	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
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	125	%	ASTM D 638
Flexural Modulus	2340	MPa	ASTM D 790
Rockwell Hardness	M 70	-	ASTM D 785
Taber Abrasion Resistance	10	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	694	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	3200	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	68.4	E-6/K	ASTM D 696
DTUL @ 66 psi	137	°C	ASTM D 648
DTUL @ 264 psi	129	°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
<b>ISO Data</b>			
Comparative tracking index	325	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	14.9	kV/mm	ASTM D 149
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
Dielectric Constant, 1 MHz	2.96	-	ASTM D 150
Volume Resistivity	1E17	Ohm*cm	ASTM D 257

Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.15	%	ASTM D 570
Water Absorption, Equilibrium	0.58	%	ASTM D 570
Density	1190	kg/m <sup>3</sup>	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	280 - 305	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 295	°C	-
Zone 3	280 - 305	°C	-
Nozzle temperature	275 - 300	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

### Characteristics

#### Processing

Injection Molding

#### Additives

Release agent

#### Certifications

Food contact, Drinking water contact

#### Applications

Building Construction, Medical, Packaging

#### Regional Availability

North America, Europe, Asia Pacific, South and Central America