

Product Texts

LNP COLORCOMP D1000F compound is based on unfilled Polycarbonate (PC) resin. Added features of this grade include: Superior Molding.

UL Yellow Card Link [E207780-103938181](https://www.ul.com/yellowcard/E207780-103938181)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	17.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
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	R 118	-	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
ISO Data			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
Vicat Temperature	154	°C	ASTM D 1525
Thermal Conductivity, solid state	0.036	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
Dielectric Constant, 1 MHz	2.96	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
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	280 - 305	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 295	°C	-
Zone 3	280 - 305	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive