LNP™ COLORCOMP™ Compound D1000ERU

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP COLORCOMP D1000ERU compound is based on Polycarbonate (PC) resin. Added features of this grade include: Easy Molding, Mold Release, UV Stabilized.

UL Yellow Card Link E207780-104122468

Processing/Physical Characteristics	Value	Unit	Test Standard
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
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	**130**	%	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	**801**	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	**0.8**	mm	-
ASTM Data			
Vicat Temperature	**154**	°C	ASTM D 1525
Thermal Conductivity, solid state	**0.0389**	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/m³	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

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific