LNP™ COLORCOMP™ Compound D1000P

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP COLORCOMP D1000P compound is based on unfilled Polycarbonate (PC) resin. Added features of this grade include: Exceptional Processing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.8**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.7**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.8**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2210**	MPa	ISO 527
Yield stress	**64**	MPa	ISO 527
Yield strain	**5.6**	%	ISO 527
Stress at break	**59**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
Flexural modulus	**2300**	MPa	ISO 178
Flexural strength	**81**	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	**13**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2060**	MPa	ASTM D 638
Tensile Strength at Yield	**62**	MPa	ASTM D 638
Tensile Strength at Break	**56**	MPa	ASTM D 638
Elongation at Yield	**5.3**	%	ASTM D 638
Elongation at Break	**78.7**	%	ASTM D 638
Flexural Modulus	**2750**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**544**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**124**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	**123**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1190**	kg/m³	ISO 1183
Density	**1200**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**300 - 315**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**295 - 305**	°C	-
Zone 2	**305 - 315**	°C	-
Zone 3	**310 - 320**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications
Automotive