LNP™ COLORCOMP™ Compound 61000EUI

(PC+PBT) Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP COLORCOMP 61000EUI compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) alloy. Added features of this grade include: Impact Modified, Improved Retention of Mechanical Properties under UV Exposure and Excellent Low Temperature Impact and Chemical Resistance.

UL Yellow Card Link E207780-103938363

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**15**	cm³/10min	ISO 1133
Temperature	**250**	°C	-
Load	**5**	kg	-
Melt flow index, MFI	**16**	g/10min	ISO 1133
Temperature	**250**	°C	-
Load	**5**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2050**	MPa	ISO 527
Yield stress	**50**	MPa	ISO 527
Yield strain	**4**	%	ISO 527
Stress at break	**50**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
Flexural modulus	**2000**	MPa	ISO 178
Charpy notched impact strength, +23°C	**55**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	**50**	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	**30**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2250**	MPa	ASTM D 638
Tensile Strength at Yield	**53**	MPa	ASTM D 638
Tensile Strength at Break	**51**	MPa	ASTM D 638
Elongation at Yield	**4**	%	ASTM D 638
Elongation at Break	**120**	%	ASTM D 638
Flexural Modulus	**2030**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**710**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**299**	J/m	ASTM D 256
Temperature	**-40**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**75**	°C	ISO 75-1/-2
Vicat softening temperature, B	**120**	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	**125**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
DTUL @ 264 psi	**84**	°C	ASTM D 648
Vicat Temperature	**122**	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	**0.5**	%	Sim. to ISO 62
Humidity absorption	**0.15**	%	Sim. to ISO 62
Density	**1220**	kg/m³	ISO 1183
Density	**1210**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-

Melt temperature	**260 - 275**	°C	-
Mold temperature	**65 - 90**	°C	-
Zone 1	**245 - 265**	°C	-
Zone 2	**250 - 270**	°C	-
Zone 3	**255 - 275**	°C	-
Screw speed	**50 - 80**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
High impact or impact modified

Chemical Resistance
General Chemical Resistance

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific