

Product Texts

LNP COLORCOMP WX09915 compound is based on Polybutylene Terephthalate (PBT) resin. Added features of this grade include: Flame Retardant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2720	MPa	ISO 527
Yield stress	53	MPa	ISO 527
Yield strain	6.9	%	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	14.8	%	ISO 527
Flexural modulus	2620	MPa	ISO 178
Flexural strength	88	MPa	ISO 178
Izod impact strength, +23°C, 4mm	86.7	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5.4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2694	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	16	%	ASTM D 638
Flexural Modulus	2640	MPa	ASTM D 790
Izod Impact notched, 1/8 in	39	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1450	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	68	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	143	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	90	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	90	E-6/K	ASTM D 696
DTUL @ 66 psi	155	°C	ASTM D 648
DTUL @ 264 psi	65	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Water Absorption, 24hr	0.58	%	ASTM D 570
Density	1360	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	121	°C	-
Processing humidity	≤0.05	%	-
Melt temperature	237 - 265	°C	-
Mold temperature	82 - 98	°C	-
Zone 1	221 - 232	°C	-
Zone 2	243 - 254	°C	-
Zone 3	260 - 271	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.17 - 0.34	MPa	-

Characteristics

LNP™ COLORCOMP™ Compound WX09915

(PC+PBT)

Saudi Basic Industries Corporation (SABIC)

Processing

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific