

Product Texts

LNP COLORCOMP WX96084-WH9A496 compound is based on Polybutylene Terephthalate (PBT) resin. Added features of this grade include: Custom Color White WH9A496.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	87	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	130	g/10min	ASTM D 1238
Temperature	265	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	22	%	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	22	%	ISO 527
Flexural modulus	1900	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	30	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	13.5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2050	MPa	ASTM D 638
Tensile Strength at Yield	41	MPa	ASTM D 638
Tensile Strength at Break	40	MPa	ASTM D 638
Elongation at Yield	30	%	ASTM D 638
Elongation at Break	22	%	ASTM D 638
Flexural Modulus	1800	MPa	ASTM D 790
Izod Impact notched, 1/8 in	100	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	53	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	125	°C	ISO 75-1/-2
Vicat softening temperature, B	180	°C	ISO 306
Coeff. of linear therm. expansion, parallel	150	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	150	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 264 psi	50	°C	ASTM D 648
Vicat Temperature	180	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.13	%	Sim. to ISO 62
Humidity absorption	0.03	%	Sim. to ISO 62
Density	1500	kg/m ³	ISO 1183
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1500	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240 - 265	°C	-

LNP™ COLORCOMP™ Compound WX96084-WH9A496

PBT

Saudi Basic Industries Corporation (SABIC)

Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific