

LNPTM COLORCOMPTM COMPOUND WX96084-WH9A496

PDXW96084S

DESCRIPTION

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

GENERAL INFORMATION	
Features	Aesthetics/Visual effects
Fillers	Unreinforced
Polymer Types	Polybutylene Terephthalate (PBT)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Consumer	Home Decoration, Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20230607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield, 5 mm/min	45	MPa	ISO 527
Tensile Stress, break, 5 mm/min	40	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	22	%	ISO 527
Tensile Strain, break, 5 mm/min	22	%	ISO 527
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527
Flexural Modulus, 2 mm/min	1900	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	65	MPa	ISO 178
Tensile Modulus, 5 mm/min	2050	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	22	%	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	30	%	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	40	MPa	ASTM D638
Tensile Stress, yld, Type I, 5 mm/min	41	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	1800	MPa	ASTM D790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	61	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, notched 80*10*4 +23°C	13.5	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	30	kJ/m ²	ISO 179/1eA

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m ²	ISO 179/1eU
Izod Impact, notched, 23°C	100	J/m	ASTM D256
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
THERMAL ⁽¹⁾			
Vicat Softening Temp, Rate B/50	180	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	53	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	125	°C	ISO 75/Bf
CTE, 23°C to 60°C, flow	1.5E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.5E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	180	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed	50	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Density	1.5	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62
Water Absorption, (23°C/saturated)	0.13	%	ISO 62-1
Mold Shrinkage, flow ⁽²⁾	2.3	%	SABIC method
Mold Shrinkage, xflow ⁽²⁾	2.2	%	SABIC method
Melt Volume Rate, MVR at 265°C/5.0 kg	87	cm ³ /10 min	ISO 1133
Specific Gravity	1.5	-	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.01	%	ASTM D570
Water Absorption, (23°C/24hrs)	0.08	%	ASTM D570
Melt Flow Rate, 265°C/5.0 kgf	130	g/10 min	ASTM D1238
INJECTION MOLDING ⁽³⁾			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	240 – 265	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

MORE INFORMATION

For curve data and CAE cards, please visit and register at <https://materialfinder.sabic-specialties.com>



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