

LNPT[™] COLORCOMP[™] COMPOUND WX09915

DESCRIPTION

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

GENERAL INFORMATION	
Features	Flame Retardant, Aesthetics/Visual effects, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate + PBT (PC+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

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Modulus, 5 mm/min	2694	MPa	ASTM D638
Tensile Stress, yld, Type I, 5 mm/min	54	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	49	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	7	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	16	%	ASTM D638
Tensile Modulus, 1 mm/min	2721	MPa	ISO 527
Tensile Stress, yield, 5 mm/min	53	MPa	ISO 527
Tensile Stress, break, 5 mm/min	48	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.9	%	ISO 527
Tensile Strain, break, 5 mm/min	14.8	%	ISO 527
Flexural Modulus, 1.3 mm/min, 50 mm span	2640	MPa	ASTM D790
Flexural Modulus, 2 mm/min	2619	MPa	ISO 178
Flexural Stress	88	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	39	J/m	ASTM D256
Izod Impact, unnotched, 23°C	1450	J/m	ASTM D4812
Izod Impact, notched 80*10*4 +23°C	5.4	kJ/m ²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	86.7	kJ/m ²	ISO 180/1U
Multiaxial Impact	50.8	J	ASTM D3763
Multiaxial Impact	38.6	J	ISO 6603
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	65	°C	ASTM D648
HDT, 0.45 MPa, 3.2 mm, unannealed	155	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	68	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	143	°C	ISO 75/Bf
CTE, -30°C to 30°C, flow	9E-5	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	9E-5	1/°C	ASTM D696
PHYSICAL ⁽¹⁾			
Density	1.36	g/cm ³	ASTM D792
Specific Gravity	1.36	-	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	2.3	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	2.4	%	ASTM D955
Moisture Absorption, (23°C/50% RH/24 hrs)	0.58	%	ASTM D570
Moisture Absorption (23°C / 50% RH)	0.05	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	121	°C	
Drying Time (Cumulative)	4	Hrs	
Melt Temperature	237 – 265	°C	
Front - Zone 3 Temperature	260 – 271	°C	
Middle - Zone 2 Temperature	243 – 254	°C	
Rear - Zone 1 Temperature	221 – 232	°C	
Mold Temperature	82 – 98	°C	
Back Pressure	0.17 – 0.34	MPa	
Screw Speed	30 – 60	rpm	
Maximum Moisture Content	0.05	%	

- (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.

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