# LNP™ COLORCOMP™ COMPOUND WX09915

## DESCRIPTION

LNP Colorcomp WX09915 is a compound based on PC+PBT resin featured with process auxilliary. For use in Electronic Components.

## TYPICAL PROPERTY VALUES

Revision 20191210

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Modulus, 5 mm/min | 2694 | MPa | ASTM D 638 |
| Tensile Stress, yld, Type I, 5 mm/min | 54 | MPa | ASTM D 638 |
| Tensile Stress, brk, Type I, 5 mm/min | 49 | MPa | ASTM D 638 |
| Tensile Strain, yld, Type I, 5 mm/min | 7 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 16 | % | ASTM D 638 |
| 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 D 790 |
| Flexural Modulus, 2 mm/min | 2619 | MPa | ISO 178 |
| Flexural Stress | 88 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 39 | J/m | ASTM D 256 |
| Izod Impact, unnotched, 23°C | 1450 | J/m | ASTM D 4812 |
| Izod Impact, notched 80*10*4 +23°C | 5.4 | kJ/m² | ISO 180/1A |
| Izod Impact, unnotched 80*10*4 +23°C | 86.7 | kJ/m² | ISO 180/1U |
| Multiaxial Impact | 50.8 | J | ASTM D 3763 |
| Multiaxial Impact | 38.6 | J | ISO 6603 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 65 | °C | ASTM D 648 |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 155 | °C | ASTM D 648 |
| 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 D 696 |
| CTE, -30°C to 30°C, xflow | 9E-5 | 1/°C | ASTM D 696 |
| PHYSICAL | | | |
| Density | 1.36 | g/cm³ | ASTM D 792 |
| Specific Gravity | 1.36 | - | ASTM D 792 |
| Mold Shrinkage, flow, 24 hrs | 2.3 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 2.4 | % | ASTM D 955 |
| Moisture Absorption, 50% RH, 24 hrs | 0.58 | % | ASTM D 570 |
| Moisture Absorption (23°C / 50% RH) | 0.05 | % | ISO 62 |
| INJECTION MOLDING | | | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| 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 | % | |

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