

Product Texts

LNP COLORCOMP 9X20038 compound is based on Polycarbonate / Acrylonitrile styrene acrylate (PC/ASA) blend. Added features of this grade include; increased flow, improved release and easy processing.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 33 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | - |
| Load | 5 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 35 | g/10min | ASTM D 1238 |
| Temperature | 260 | °C | - |
| Load | 5 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2100 | MPa | ISO 527 |
| Yield stress | 55 | MPa | ISO 527 |
| Yield strain | 5 | % | ISO 527 |
| Strain at break | 75 | % | ISO 527 |
| Flexural modulus, 23°C | 2500 | MPa | ISO 178 |
| Flexural strength | 76 | MPa | ISO 178 |
| Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 60 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 15 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C | 50 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 18 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| Puncture energy, +23°C | 90 | J | ISO 6603-2 |
| Puncture energy, -30°C | 95 | J | ISO 6603-2 |
| Rockwell hardness | R 115 | - | ISO 2039-2 |
| Ball indentation hardness | 120 | MPa | ISO 2039-1 |
| ASTM Data | | | |
| Tensile Modulus | 2200 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 55 | MPa | ASTM D 638 |
| Elongation at Yield | 5 | % | ASTM D 638 |
| Flexural Modulus | 2200 | MPa | ASTM D 790 |
| Flexural Strength | 84 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 580 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 140 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |
| 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 | 112 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 130 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 129 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 85 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 85 | E-6/K | ISO 11359-1/-2 |
| Glow Wire Flammability Index (GWFI) | 750 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 2 | mm | - |
| Glow Wire Flammability Index (GWFI) | 750 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (2) | 2.5 | mm | - |
| Glow Wire Flammability Index (GWFI) | 775 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (3) | 3 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 775 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (1) | 2 | mm | - |

LNP™ COLORCOMP™ Compound 9X20038

(PC+ASA)

Saudi Basic Industries Corporation (SABIC)

| | | | |
|---------------------------------------|------------|-------|----------------|
| Glow Wire Ignition Temperature (GWIT) | 775 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (2) | 2.5 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 800 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (3) | 3 | mm | - |
| ASTM Data | | | |
| Coefficient of Thermal Expansion, MD | 85 | E-6/K | ASTM D 696 |
| Coefficient of Thermal Expansion, TD | 85 | E-6/K | ASTM D 696 |
| DTUL @ 66 psi | 128 | °C | ASTM D 648 |
| DTUL @ 264 psi | 111 | °C | ASTM D 648 |
| Vicat Temperature | 129 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption | 0.1 | % | Sim. to ISO 62 |
| Density | 1200 | kg/m ³ | ISO 1183 |
| Density | 1170 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 100 - 120 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 260 - 290 | °C | - |
| Mold temperature | 60 - 90 | °C | - |
| Feed temperature | 40 - 80 | °C | - |
| Zone 1 | 230 - 260 | °C | - |
| Zone 2 | 250 - 290 | °C | - |
| Zone 3 | 250 - 290 | °C | - |
| Nozzle temperature | 240 - 280 | °C | - |

Characteristics**Processing**

Injection Molding

Additives

Release agent

Special Characteristics

High impact or impact modified

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America