# LNP™ COLORCOMP™ COMPOUND 9X02694J

## DESCRIPTION

COLORCOMP 9X02694J compound is based on Polyphenylsulfone (PPSU). Added features of this grade include High Heat Resistance, Healthcare, Low Extractable.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Food contact, Healthcare/Formula lock, High temperature resistance, No PFAS intentionally added |
| **Fillers** | Unreinforced |
| **Polymer Types** | Polyphenylsulfone (PPSU) |
| **Processing Techniques** | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Building and Construction | Water Management |
| Consumer | Home Appliances |
| Hygiene and Healthcare | Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing |
| Packaging | Industrial Packaging, Food & Beverage |

## TYPICAL PROPERTY VALUES

Revision 20260422

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **MECHANICAL** [1] | | | |
| **Tensile Modulus, 50 mm/min** | 2340 | MPa | ASTM D638 |
| **Tensile Stress, yld, Type I, 50 mm/min** | 69.6 | MPa | ASTM D638 |
| **Tensile Strain, yld, Type I, 50 mm/min** | 7.2 | % | ASTM D638 |
| **Tensile Strain, brk, Type I, 50 mm/min** | 90 | % | ASTM D638 |
| **Flexural Modulus, 1.3 mm/min, 50 mm span** | 2410 | MPa | ASTM D790 |
| **Flexural Stress at 5% strain, 1.3 mm/min, 50 mm span** | 91 | MPa | ASTM D790 |
| **IMPACT** [1] | | | |
| **Izod Impact, notched, 23°C** | 690 | J/m | ASTM D256 |
| **THERMAL** [1] | | | |
| **HDT, 1.82 MPa, 3.2mm, unannealed** | 207 | °C | ASTM D648 |
| **CTE, -30°C to 30°C, flow** | 5.5E-05 | 1/°C | ASTM D696 |
| **PHYSICAL** [1] | | | |
| **Specific Gravity** | 1.29 | - | ASTM D792 |
| **Water Absorption, (23°C/24hrs)** | 0.37 | % | ASTM D570 |
| **Water Absorption, (23°C/Saturated)** | 1.1 | % | ASTM D570 |
| **Melt Flow Rate** | | | |
| 365°C/5.0 kgf | 14.5 | g/10 min | ASTM D1238 |
| **Mold Shrinkage, flow** [2] | 0.7 | % | SABIC method |
| **INJECTION MOLDING** [3] | | | |
| **Drying Temperature** | 150 | °C | |
| **Drying Time** | 2.5 | Hrs | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **Maximum Moisture Content** | 0.05 | % | |
| **Melt Temperature** | 360 – 390 | °C | |
| **Mold Temperature** | 140 – 160 | °C | |
| **Back Pressure** | 0.3 – 0.7 | MPa | |

(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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