

Vyncolit® X659

Phenolic

Vyncolit N.V.

Message:

Vyncolit® X659 is a glass fiber, mineral and graphite filled phenolic molding compound with superior stiffness, high dimensional stability and excellent tribological properties. Good chemical resistance against several fuels at elevated temperatures.

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass\Mineral,80% Filler by Weight | | |
| Features | Fuel Resistant | | |
| | Good Chemical Resistance | | |
| | Good Dimensional Stability | | |
| | Good Stiffness | | |
| Agency Ratings | EU 2002/96/EC (WEEE) 2 | | |
| | EU 2006/122/EC | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Black | | |
| Processing Method | Compression Molding | | |
| | Injection Molding | | |
| | Resin Transfer Molding | | |
| Part Marking Code (ISO 11469) | >PF-(MD+GF+CD)80< | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 2.06 | g/cm ³ | ISO 1183 |
| Apparent Density | 1.00 | g/cm ³ | ISO 60 |
| Molding Shrinkage | 0.20 | % | ISO 2577 |
| Water Absorption (23°C, 24 hr) | 0.040 | % | ISO 62 |
| Post Shrinkage | 0.010 | % | ISO 2577 |
| Flexural Strain at Break | 0.69 | % | ISO 178 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (Injection Molded) | 29000 | MPa | ISO 527-2 |
| Tensile Stress (Break, Injection Molded) | 89.0 | MPa | ISO 527-2 |
| Tensile Strain (Break, Injection Molded) | 0.35 | % | ISO 527-2 |
| Flexural Modulus (Injection Molded) | 26000 | MPa | ISO 178 |
| Flexural Stress (Injection Molded) | 163 | MPa | ISO 178 |
| Compressive Stress | 269 | MPa | ISO 604 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (Injection Molded) | 2.6 | kJ/m ² | ISO 179 |

| Charpy Unnotched Impact Strength (Injection Molded) | 9.6 | kJ/m ² | ISO 179 |
|--|---------------|-------------------|-------------|
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 222 | °C | ISO 75-2/Af |
| CLTE | | | TMA |
| Flow | 1.4E-5 | cm/cm/°C | |
| Transverse | 3.0E-5 | cm/cm/°C | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

