# Vyncolit® 2723W

Phenolic

Vyncolit N.V.

## Message:

Vyncolit® 2723W is a mineral and organic filled phenolic molding compound with excellent dielectric properties. I2-F1 classified under NF F 16-101/102 (Fire & Smoke Classification) for as molded test specimens.

| General Information | |
|---|---|
| UL YellowCard | E167521-225068 |
| Filler / Reinforcement | Mineral filler<br>Organic filler |
| Features | Good electrical performance |
| RoHS Compliance | RoHS compliance |
| Appearance | Black |
| Forms | Particle |
| Processing Method | Resin transfer molding<br>Compression molding<br>Injection molding |
| Part Marking Code (ISO 11469) | >PF-(MD+GF+L1D)60 |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.69 | g/cm³ | ISO 1183 |
| Apparent Density | 0.73 | g/cm³ | ISO 60 |
| Molding Shrinkage - Flow | 0.44 | % | ISO 2577 |
| Water Absorption (23°C, 24 hr) | 0.080 | % | ISO 62 |
| Post Shrinkage | 0.16 | % | ISO 2577 |
| Flexural Strain at Break | 1.7 | % | ISO 178 |
| Smoke | I2-F1 | | NF F 16-101/102 |

| Mechanical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Tensile Modulus (Injection Molded) | 9000 | MPa | ISO 527-2 |
| Tensile Stress (Break, Injection Molded) | 53.0 | MPa | ISO 527-2 |
| Tensile Strain (Break, Injection Molded) | 1.0 | % | ISO 527-2 |
| Flexural Modulus (Injection Molded) | 8000 | MPa | ISO 178 |
| Flexural Stress (Injection Molded) | 99.0 | MPa | ISO 178 |
| Compressive Stress | 192 | MPa | ISO 604 |

| Impact | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Charpy Notched Impact Strength (Injection Molded) | 2.1 | kJ/m² | ISO 179 |
| Charpy Unnotched Impact Strength | 8.1 | kJ/m² | ISO 179 |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 189 | °C | ISO 75-2/Af |
| Linear thermal expansion coefficient | | | ASTM E831 |
| Flow | 2.2E-5 | cm/cm/°C | ASTM E831 |
| Lateral | 4.7E-5 | cm/cm/°C | ASTM E831 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 3.4E+12 | ohms | IEC 60093 |
| Volume Resistivity | 1.8E+14 | ohms·cm | IEC 60093 |
| Dielectric Strength | 27 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index | 250 | V | IEC 60112 |
| **Injection** | **Nominal Value** | **Unit** | |
| Rear Temperature | 60.0 | °C | |
| Middle Temperature | 73.9 | °C | |
| Nozzle Temperature | 87.8 | °C | |
| Processing (Melt) Temp | 98.9 - 116 | °C | |
| Mold Temperature | 166 - 188 | °C | |
| Injection Pressure | 100 - 248 | MPa | |
| Holding Pressure | 30.0 - 89.6 | MPa | |
| Back Pressure | 4.83 - 15.2 | MPa | |

**Injection instructions**

Plastication: 50rpmInjection Time: 2 to 8 secHold Time: 1 to 5 sec/mmCure Time, 0.125 in: 5 to 12 sec/mm



## 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