

# Vyncolit® GS84

Phenolic

Vyncolit N.V.

## Message:

Vyncolit GS84 is a cotton filled phenolic moulding compound with excellent mechanical properties.

| General Information    |                         |  |  |
|------------------------|-------------------------|--|--|
| Filler / Reinforcement | Cotton filler           |  |  |
| Features               | Impact resistance, high |  |  |
| Uses                   | Gear                    |  |  |
|                        | Shell                   |  |  |
| Appearance             | Black                   |  |  |
| Forms                  | Particle                |  |  |
| Processing Method      | Resin transfer molding  |  |  |
|                        | Compression molding     |  |  |
|                        | Injection molding       |  |  |

| Physical                                     | Nominal Value | Unit              | Test Method |
|----------------------------------------------|---------------|-------------------|-------------|
| Density                                      | 1.41          | g/cm <sup>3</sup> | ISO 1183    |
| Apparent Density                             | 0.40          | g/cm <sup>3</sup> | ISO 60      |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 1.3           | %                 | ISO 62      |

| Mechanical             | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Tensile Stress (Break) | 35.0          | MPa  | ISO 527-2   |
| Flexural Modulus       | 6750          | MPa  | ISO 178     |
| Flexural Stress        | 60.0          | MPa  | ISO 178     |
| Compressive Stress     | 150           | MPa  | ISO 604     |

| Impact                           | Nominal Value | Unit              | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength   | 6.0           | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength | 6.0           | kJ/m <sup>2</sup> | ISO 179     |

| Thermal                                           | Nominal Value | Unit | Test Method |
|---------------------------------------------------|---------------|------|-------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 150           | °C   | ISO 75-2/A  |

| Electrical                 | Nominal Value | Unit  | Test Method |
|----------------------------|---------------|-------|-------------|
| Dielectric Strength        | 10            | kV/mm | IEC 60243-1 |
| Comparative Tracking Index | 125           | V     | IEC 60112   |

| Flammability           | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Flame Rating (4.00 mm) | V-1           |      | UL 94       |

| Additional Information |  |  |  |
|------------------------|--|--|--|
|------------------------|--|--|--|

Apparent Density, ISO 60: 0.35 to 0.45 g/cm<sup>3</sup>Mold Shrinkage, ISO 2577: 0.60 to 0.80 %Post Shrinkage, ISO 2577: 0.60 to 0.80 %Flexural Modulus, ISO 178: 6 to 7.5 GPa

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