

SCHULAFORM® 9 A GF 20

Acetal (POM) Copolymer

A. Schulman Europe

Message:

20% glass fibre reinforced polyoxymethylene

| General Information | | | |
|---|---|------------------------|----------------|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Uses | Agricultural Applications Building Materials Electrical/Electronic Applications Garden Hose Industrial Applications | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.53 | g/cm ³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 4.50 | cm ³ /10min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Ball Indentation Hardness (H 358/30) | 180 | MPa | ISO 2039-1 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 7500 | MPa | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 112 | MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.0 | % | ISO 527-2/1A/5 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | 6.5 | kJ/m ² | |
| 23°C | 7.0 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -30°C | 53 | kJ/m ² | |
| 23°C | 46 | kJ/m ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 163 | °C | ISO 75-2/Bf |
| 1.8 MPa, Unannealed | 160 | °C | ISO 75-2/Af |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+15 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+13 | ohms · cm | IEC 60093 |
| Flammability | Nominal Value | Unit | Test Method |

| | | | |
|--------------------------------|-----|--------|----------------|
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 1.50 mm | 625 | °C | |
| 3.00 mm | 625 | °C | |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 1.50 mm | 650 | °C | |
| 3.00 mm | 650 | °C | |
| Flammability | 34 | mm/min | FMVSS 302 |

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