

# SCHULAFORM® 9 F EC

Acetal (POM) Copolymer

A. Schulman Europe

Message:

High viscosity polyoxymethylene with electrical conductivity.

| General Information                               |                   |           |                      |
|---------------------------------------------------|-------------------|-----------|----------------------|
| Processing Method                                 | Injection Molding |           |                      |
| Physical                                          | Nominal Value     | Unit      | Test Method          |
| Density                                           | 1.38              | g/cm³     | ISO 1183/A           |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)       | 0.800             | cm³/10min | ISO 1133             |
| Hardness                                          | Nominal Value     | Unit      | Test Method          |
| Ball Indentation Hardness (H 358/30)              | 122               | MPa       | ISO 2039-1           |
| Mechanical                                        | Nominal Value     | Unit      | Test Method          |
| Tensile Modulus                                   | 2050              | MPa       | ISO 527-2/1A/1       |
| Tensile Stress (Yield)                            | 48.0              | MPa       | ISO 527-2/1A/50      |
| Nominal Tensile Strain at Break                   | 12                | %         | ISO 527-2/1A/50      |
| Flexural Modulus <sup>1</sup>                     | 1800              | MPa       | ISO 178              |
| Flexural Stress                                   | 48.0              | MPa       | ISO 178              |
| Impact                                            | Nominal Value     | Unit      | Test Method          |
| Charpy Notched Impact Strength (23°C)             | 5.0               | kJ/m²     | ISO 179/1eA          |
| Charpy Unnotched Impact Strength (23°C)           | 75                | kJ/m²     | ISO 179/1eU          |
| Notched Izod Impact Strength                      | 5.5               | kJ/m²     | ISO 180/1A           |
| Thermal                                           | Nominal Value     | Unit      | Test Method          |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 102               | °C        | ISO 75-2/Af          |
| Vicat Softening Temperature                       | 141               | °C        | ISO 306/B50          |
| Electrical                                        | Nominal Value     | Unit      | Test Method          |
| Surface Resistivity                               | 1.0E+3            | ohms      | IEC 60093            |
| Volume Resistivity                                | 1.0E+5            | ohms · cm | IEC 60093            |
| Flammability                                      | Nominal Value     | Unit      | Test Method          |
| Burning Rate                                      | < 100             | mm/min    | ISO 3795             |
| Flammability Classification (3.00 mm)             | HB                |           | IEC 60695-11-10, -20 |
| NOTE                                              |                   |           |                      |

1. 2.0 mm/min

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# 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

