

SABIC® POM MV 002

POLYOXYMETHYLENE

DESCRIPTION

SABIC® POM MV 002 is a Polyoxymethylene copolymer grade with medium-viscosity, used for general-purpose injection molded applications.

TYPICAL PROPERTY VALUES

Revision 20220721

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------------|----------------|
| PHYSICAL PROPERTIES ⁽¹⁾ | | | |
| Density | 1410 | kg/m ³ | ISO 1183 |
| Melt volume rate (MVR) | 8 | cm ³ /10 min | ISO 1133 |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile stress at yield (50mm/min) | 63 | MPa | ISO 527-2 1A |
| Tensile modulus (1mm/min) | 2600 | MPa | ISO 527-2 1A |
| Tensile Strain at Yield | 9 | % | ISO 527-2 1A |
| Charpy Notched Impact Strength @ 23°C | 5.6 | kJ/m ² | ISO 179 |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Melting temperature (10 °C/min) | 165 | °C | ISO 11357-1/-3 |
| Deflection temperature under load DTUL (@1.8 MPa) | 100 | °C | ISO 75-1&2 |

(1) Typical values; not to be construed as specification limits.

CHARACTERISTICS

SABIC® POM MV 002 has the following:

- High toughness and strength.
- High resistance to thermal and oxidative degradation.
- Fuel, strong alkalis and good hydrolysis resistances.

PROCESSING CONDITIONS

Injection Molding

Standard injection molding machines with three phase (15 to 25D) plasticizing screws will fit.

Melt Temperature 190 – 22 °C

Mold Temperature 80 – 110 °C

STORAGE AND HANDLING

Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Open containers only in well-ventilated area. Store in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from direct sunlight. Residual monomer vapors can accumulate in the headspace of closed containers.

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