

# Cevian®-MAS MAS10, MAS10F

Methyl Methacrylate Styrene

Daicel Polymer Ltd.

Message:

Cevian®-MAS MAS10, MAS10F is a Methyl Methacrylate Styrene (MMS) material. It is available in Asia Pacific. Primary attribute of Cevian®-MAS MAS10, MAS10F: Flame Rated.

| General Information                       |               |                   |             |
|-------------------------------------------|---------------|-------------------|-------------|
| UL YellowCard                             | E47773-239890 |                   |             |
| Physical                                  | Nominal Value | Unit              | Test Method |
| Density                                   | 1.08          | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 22            | g/10 min          | ISO 1133    |
| Molding Shrinkage - Flow                  | 0.30 to 0.50  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.11          | %                 | ISO 62      |
| Hardness                                  | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (M-Scale)               | 73            |                   | ISO 2039-2  |
| Mechanical                                | Nominal Value | Unit              | Test Method |
| Tensile Stress (Yield)                    | 62.0          | MPa               | ISO 527-2   |
| Flexural Modulus                          | 3300          | MPa               | ISO 178     |
| Flexural Stress                           | 105           | MPa               | ISO 178     |
| Impact                                    | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)     | 2.0           | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact (23°C, 6.40 mm)       | 15            | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load         |               |                   |             |
| 1.8 MPa, Unannealed, 12.7 mm              | 87.0          | °C                | ASTM D648   |
| 1.8 MPa, Unannealed                       | 77.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature               | 90.0          | °C                | ISO 306/B50 |
| CLTE - Flow                               | 7.0E-5        | cm/cm/°C          | ISO 11359-2 |
| Ball Pressure Test                        | 90            | °C                |             |
| Flammability                              | Nominal Value |                   | Test Method |
| Flame Rating                              | HB            |                   | UL 94       |
| Injection                                 | Nominal Value | Unit              |             |
| Drying Temperature                        | 80.0 to 85.0  | °C                |             |
| Drying Time                               | 3.0 to 5.0    | hr                |             |
| Rear Temperature                          | 170 to 190    | °C                |             |
| Middle Temperature                        | 190 to 210    | °C                |             |
| Front Temperature                         | 210 to 230    | °C                |             |
| Nozzle Temperature                        | 210 to 230    | °C                |             |
| Mold Temperature                          | 40.0 to 60.0  | °C                |             |

|               |              |     |
|---------------|--------------|-----|
| Back Pressure | 10.0 to 20.0 | MPa |
| Screw Speed   | 70 to 90     | rpm |

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