

# XANTAR® MX 2021

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Flame Retardant

| General Information                               |                 |                        |                |
|---------------------------------------------------|-----------------|------------------------|----------------|
| Additive                                          | Flame Retardant |                        |                |
| Features                                          | Flame Retardant |                        |                |
| RoHS Compliance                                   | RoHS Compliant  |                        |                |
| Forms                                             | Pellets         |                        |                |
| Physical                                          | Nominal Value   | Unit                   | Test Method    |
| Density                                           | 1.21            | g/cm <sup>3</sup>      | ISO 1183       |
| Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)        | 13.0            | cm <sup>3</sup> /10min | ISO 1133       |
| Molding Shrinkage - Flow                          | 0.60            | %                      | ISO 294-4      |
| Water Absorption (Saturation, 23°C)               | 0.35            | %                      | ISO 62         |
| Limiting Viscosity Number                         | 47.0            | cm <sup>3</sup> /g     | ISO 1628-4     |
| Hardness                                          | Nominal Value   | Unit                   | Test Method    |
| Rockwell Hardness (M-Scale)                       | 75              |                        | ISO 2039-2     |
| Mechanical                                        | Nominal Value   | Unit                   | Test Method    |
| Tensile Modulus                                   | 2300            | MPa                    | ISO 527-2      |
| Tensile Stress (Yield)                            | 60.0            | MPa                    | ISO 527-2      |
| Tensile Strain (Yield)                            | 6.0             | %                      | ISO 527-2      |
| Nominal Tensile Strain at Break                   | > 50            | %                      | ISO 527-2      |
| Flexural Modulus                                  | 2400            | MPa                    | ISO 178        |
| Flexural Stress                                   | 90.0            | MPa                    | ISO 178        |
| Impact                                            | Nominal Value   | Unit                   | Test Method    |
| Notched Izod Impact Strength (23°C)               | 80              | kJ/m <sup>2</sup>      | ISO 180/4A     |
| Thermal                                           | Nominal Value   | Unit                   | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 140             | °C                     | ISO 75-2/A     |
| Vicat Softening Temperature                       | 150             | °C                     | ISO 306/B50    |
| Ball Pressure Test (125°C)                        | Pass            |                        | IEC 60695-10-2 |
| CLTE - Flow                                       | 6.5E-5          | cm/cm/°C               | ISO 11359-2    |
| Electrical                                        | Nominal Value   | Unit                   | Test Method    |
| Surface Resistivity                               | > 1.0E+15       | ohms                   | IEC 60093      |
| Volume Resistivity                                | > 1.0E+15       | ohms · cm              | IEC 60093      |
| Electric Strength                                 | 29              | kV/mm                  | IEC 60243-1    |
| Relative Permittivity                             |                 |                        | IEC 60250      |
| 100 Hz                                            | 3.00            |                        |                |

| 1 MHz                          | 2.90          |      |                |
|--------------------------------|---------------|------|----------------|
| Dissipation Factor             |               |      | IEC 60250      |
| 100 Hz                         | 6.6E-4        |      |                |
| 1 MHz                          | 9.2E-3        |      |                |
| Flammability                   | Nominal Value | Unit | Test Method    |
| Glow Wire Flammability Index   |               |      | IEC 60695-2-12 |
| 1.50 mm                        | 960           | °C   |                |
| 3.00 mm                        | 960           | °C   |                |
| Glow Wire Ignition Temperature |               |      | IEC 60695-2-13 |
| 1.50 mm                        | 825           | °C   |                |
| 3.00 mm                        | 850           | °C   |                |
| Oxygen Index                   | 35            | %    | ISO 4589-2     |

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