

# POLYMAN® (PMMA) M/21

Polymethyl Methacrylate Acrylic

A. Schulman Europe

Message:

High flow PMMA grade

| General Information                               |                   |                        |                |
|---------------------------------------------------|-------------------|------------------------|----------------|
| Features                                          | Good liquidity    |                        |                |
| Processing Method                                 | Injection molding |                        |                |
| Resin ID (ISO 1043)                               | PMMA              |                        |                |
| Physical                                          | Nominal Value     | Unit                   | Test Method    |
| Density                                           | 1.19              | g/cm <sup>3</sup>      | ISO 1183/A     |
| Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)        | 21.0              | cm <sup>3</sup> /10min | ISO 1133       |
| Mechanical                                        | Nominal Value     | Unit                   | Test Method    |
| Tensile Modulus                                   | 3300              | MPa                    | ISO 527-2/1A/1 |
| Tensile Stress (Break)                            | 55.0              | MPa                    | ISO 527-2/1A/5 |
| Tensile Strain (Break)                            | 2.0               | %                      | ISO 527-2/1A/5 |
| Impact                                            | Nominal Value     | Unit                   | Test Method    |
| Charpy Notched Impact Strength (23°C)             | 2.0               | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy Unnotched Impact Strength (23°C)           | 15                | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Thermal                                           | Nominal Value     | Unit                   | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 76.0              | °C                     | ISO 75-2/Af    |
| Vicat Softening Temperature                       | 89.0              | °C                     | ISO 306/B50    |
| Electrical                                        | Nominal Value     | Unit                   | Test Method    |
| Surface Resistivity                               | > 1.0E+15         | ohms                   | IEC 60093      |
| Volume Resistivity                                | > 1.0E+13         | ohms·cm                | IEC 60093      |
| Additional Information                            |                   |                        |                |

- 1.)  
Not for use in food contact applications2.)  
Not for use in medical or pharmaceutical applications

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