

# TEREZ PMMA 5003

Polymethyl Methacrylate Acrylic

TER HELL PLASTIC GMBH

Message:

Standard grade, injection moulding, good heat deflection temperature.  
Automobile brakelites, scratch resistant, optical high quality moulding parts.

| General Information                      |                         |                   |             |
|------------------------------------------|-------------------------|-------------------|-------------|
| Features                                 | Scratch Resistant       |                   |             |
| Uses                                     | Automotive Applications |                   |             |
| Processing Method                        | Injection Molding       |                   |             |
| Physical                                 | Nominal Value           | Unit              | Test Method |
| Density                                  | 1.19                    | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 5.0                     | g/10 min          | ISO 1133    |
| Mechanical                               | Nominal Value           | Unit              | Test Method |
| Tensile Modulus                          | 3200                    | MPa               | ISO 527-2   |
| Tensile Stress (Break)                   | 73.0                    | MPa               | ISO 527-2   |
| Tensile Strain (Break)                   | 3.5                     | %                 | ISO 527-2   |
| Impact                                   | Nominal Value           | Unit              | Test Method |
| Charpy Unnotched Impact Strength (23°C)  | 20                      | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                  | Nominal Value           | Unit              | Test Method |
| Heat Deflection Temperature              |                         |                   |             |
| 0.45 MPa, Unannealed                     | 100                     | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                      | 95.0                    | °C                | ISO 75-2/A  |
| Vicat Softening Temperature              | 103                     | °C                | ISO 306/B50 |

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