

# Technical Data Sheet

## ROTEC® ABS TS 15/02



*Injection moulding grade, high temperature resistance, high impact*

| <i>Properties</i>                  | <i>Unit</i>                        | <i>Test Method</i> | <i>Test Condition</i>  | <i>Value*</i> | <i>Remarks</i> |
|------------------------------------|------------------------------------|--------------------|------------------------|---------------|----------------|
| <i>Mechanical.....</i>             |                                    |                    |                        |               |                |
| Tensile Modulus                    | MPa                                | ISO 527            | 23°C<br>1 mm/min       | 2,700         |                |
| Tensile Strength                   | MPa                                | ISO 527            | 23°C<br>50 mm/min      | 50            |                |
| Elongation at Break                | %                                  | ISO 527            | 23°C<br>50 mm/min      | 20            |                |
| Flexural Modulus                   | MPa                                | ISO 178            | 23°C<br>2 mm/min       | 2,500         |                |
| Flexural Strength                  | MPa                                | ISO 178            | 23°C<br>2 mm/min       | 80            |                |
| Impact Strength Notched (Charpy)   | kJ/m²                              | ISO 179 1eA        | 80 x 10 x 4 mm<br>23°C | 18            |                |
| Impact Strength (Charpy)           | kJ/m²                              | ISO 179 1eU        | 80 x 10 x 4 mm<br>23°C | n.b.          |                |
| <i>Physical.....</i>               |                                    |                    |                        |               |                |
| Density                            | g/cm³                              | ISO 1183           | 23°C, 50% RH           | 1.05          |                |
| Water Absorption                   | %                                  | ISO 62             | 23°C, 24 h             | 0.3           |                |
| <i>Thermal.....</i>                |                                    |                    |                        |               |                |
| Vicat Softening Temperature (B 50) | °C                                 | ISO 306            | 50°C/h<br>50 N         | 105           |                |
| Melt Flow Rate MFR                 | g/10 min                           | ISO 1133           | 220°C<br>10 kg         | 12            |                |
| Thermal Conductivity               | W/(K·m)                            | DIN 52612          |                        | 0.18          |                |
| Linear Thermal Expansion           | 10 <sup>-4</sup> · K <sup>-1</sup> | ISO 11359-2        | 23°C - 55°C            | 0.85          |                |
| Moulding Shrinkage                 | %                                  | ISO 294-4          | 23°C                   | 0.5 - 0.7     |                |
| Flammability (own test)            | Class                              | UL 94              | 1.5 mm                 | HB            |                |

\* = Average figures which could vary with each production batch due to addition of pigments, antistatic agents, slip agents, light stabilizers or other additives.

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