# Technical Data Sheet

# ROTEC® ABS TS 15/04

ROMIRA
ENGINEERING POLYMERS

*Injection moulding grade, high temperature resistance, high impact, PC modified, low emission*

| *Properties* | *Unit* | *Test Method* | *Test Condition* | **Value*** | **Remarks** |
|---|---|---|---|---|---|
| | | | | | |
| *Mechanical.....* | | | | | |
| Tensile Modulus | MPa | ISO 527 | 23℃<br>1 mm/min | 2,300 | |
| Tensile Strength | MPa | ISO 527 | 23℃<br>50 mm/min | 48 | |
| Elongation at Break | % | ISO 527 | 23℃<br>50 mm/min | 25 | |
| Flexural Modulus | MPa | ISO 178 | 23℃<br>2 mm/min | 2,400 | |
| Flexural Strength | MPa | ISO 178 | 23℃<br>2 mm/min | 80 | |
| Impact Strength Notched (Charpy) | kJ/m² | ISO 179 1eA | 80 x 10 x 4 mm<br>23℃ | 22 | |
| Impact Strength (Charpy) | kJ/m² | ISO 179 1eU | 80 x 10 x 4 mm<br>23℃ | n.b. | |
| *Physical.....* | | | | | |
| Density | g/cm³ | ISO 1183 | 23℃, 50% RH | 1.06 | |
| Water Absorption | % | ISO 62 | 23℃, 24 h | 0.3 | |
| *Thermal.....* | | | | | |
| Heat Distortion Temperature (HDT A) | ℃ | ISO 75 | 1.8 MPa | 83 | |
| Vicat Softening Temperature (B 50) | ℃ | ISO 306 | 50℃/h<br>50 N | 105 | |
| Melt Flow Rate MFR | g/10 min | ISO 1133 | 220℃<br>10 kg | 10 | |
| Thermal Conductivity | W/(K·m) | DIN 52612 | | 0.18 | |
| Linear Thermal Expansion | $10^{-4} \cdot K^{-1}$ | ISO 11359-2 | 23℃ - 55℃ | 0.85 | |
| Moulding Shrinkage | % | ISO 294-4 | 23℃ | 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.

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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