

Technical Data Sheet

ROTEC® ABS SE 5/02



ROMIRA
ENGINEERING POLYMERS

Injection moulding and extrusion grade, 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 1 mm/min | 2,100 | |
| Tensile Strength | MPa | ISO 527 | 23°C 50 mm/min | 41 | |
| Elongation at Break | % | ISO 527 | 23°C 50 mm/min | 17 | |
| Flexural Modulus | MPa | ISO 178 | 23°C 2 mm/min | 2,300 | |
| Flexural Strength | MPa | ISO 178 | 23°C 2 mm/min | 67 | |
| Impact Strength Notched (Charpy) | kJ/m ² | ISO 179 1eA | 80 x 10 x 4 mm 23°C / -30°C | 40 / 22 | |
| Impact Strength (Charpy) | kJ/m ² | ISO 179 1eU | 80 x 10 x 4 mm 23°C / -30°C | n.b. / n.b. | |
| <i>Physical.....</i> | | | | | |
| Density | g/cm ³ | ISO 1183 | 23°C, 50% RH | 1.03 | |
| Water Absorption | % | ISO 62 | 23°C, 24 h | 0.3 | |
| <i>Thermal.....</i> | | | | | |
| Vicat Softening Temperature (B 50) | °C | ISO 306 | 50°C/h 50 N | 93 | |
| Melt Flow Rate MFR | g/10 min | ISO 1133 | 220°C 10 kg | 6 | |
| Thermal Conductivity | W/(K.m) | DIN 52612 | | 0.17 | |
| Linear Thermal Expansion | 10 ⁻⁴ · K ⁻¹ | ISO 11359-2 | 23°C - 55°C | 0.95 | |
| 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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