

Technical Data Sheet

ROTEC® ASA E 310



Standard extrusion grade

| <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 | 2,500 | |
| Tensile Strength | MPa | ISO 527 | 23°C 50 mm/min | 51 | |
| Elongation at Break | % | ISO 527 | 23°C 50 mm/min | 50 | |
| Flexural Modulus | MPa | ISO 178 | 23°C 2 mm/min | 2,400 | |
| Flexural Strength | MPa | ISO 178 | 23°C 2 mm/min | 79 | |
| Impact Strength Notched (Charpy) | kJ/m ² | ISO 179 1eA | 80 x 10 x 4 mm 23°C | 11 | |
| Impact Strength (Charpy) | kJ/m ² | ISO 179 1eU | 80 x 10 x 4 mm 23°C | n.b. | |
| <i>Physical.....</i> | | | | | |
| Density | g/cm ³ | ISO 1183 | 23°C, 50% RH | 1.06 | |
| Water Absorption | % | ISO 62 | 23°C, 24 h | 0.3 | |
| <i>Thermal.....</i> | | | | | |
| Heat Distortion Temperature (HDT A) | °C | ISO 75 | 1.8 MPa | 85 | |
| Vicat Softening Temperature (B 50) | °C | ISO 306 | 50°C/h 50 N | 99 | |
| Melt Flow Rate MFR | g/10 min | ISO 1133 | 220°C 10 kg | 15 | |
| Thermal Conductivity | W/(K·m) | DIN 52612 | | 0.17 | |
| Linear Thermal Expansion | 10 ⁻⁴ · K ⁻¹ | ISO 11359-2 | 23°C - 55°C | 0.85 | |
| Moulding Shrinkage | % | ISO 294-4 | 23°C | 0.3 - 0.6 | |
| 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.

ROMIRA GMBH