# ROTEC® ABS 1001 F

ABS — Romira GmbH

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melt flow index, MFI | **35** | g/10min | ISO 1133 |
| Temperature | **220** | °C | - |
| Load | **10** | kg | - |
| Molding shrinkage, parallel | **0.5** | % | ISO 294-4, 2577 |
| Thermal conductivity of melt | **0.18** | W/(m K) | - |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **2500** | MPa | ISO 527 |
| Tensile Strength | **47** | MPa | ISO 527 |
| Strain at break | **12** | % | ISO 527 |
| Flexural modulus, 23°C | **2600** | MPa | ISO 178 |
| Flexural strength | **75** | MPa | ISO 178 |
| Charpy impact strength, +23°C | **N** | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | **12** | kJ/m² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Temp. of deflection under load, 1.80 MPa | **77** | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | **100** | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | **85** | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | **HB** | class | IEC 60695-11-10 |
| Thickness tested | **1.5** | mm | - |
| Yellow Card available | **yes** | - | - |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1050** | kg/m³ | ISO 1183 |

## Characteristics

**Processing**
Injection Molding

**Applications**
Automotive, IT / Business Machine, Medical

**Special Characteristics**
Heat stabilized or stable to heat

**Regional Availability**
North America, Europe, Asia Pacific