

TECHNICAL DATA SHEET

ROTEC[®] ABS 1001 F

ROMIRA

ABS, injection moulding grade, easy-flowing

PROPERTY	Test Method	Condition	Unit	Value*
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MECHANICAL.....

Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	2,500
Tensile Strength	DIN EN ISO 527	50 mm/min 23 °C	MPa	47
Elongation at Break	DIN EN ISO 527	50 mm/min 23 °C	%	12
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	2,600
Flexural Strength	DIN EN ISO 178	2 mm/min 23 °C	MPa	75
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m ²	12
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23 °C	kJ/m ²	n.b.

PHYSICAL.....

Density	DIN EN ISO 1183	23 °C, 50 % RH	g/cm ³	1.05
Water Absorption	DIN EN ISO 62	23 °C, 50 % RH, 24 h	%	0.3

THERMAL.....

Heat deflection temperature (HDT/A)	DIN EN ISO 75-1	1,8 MPa	°C	77
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	100
Melt Mass-Flow Rate (MFR)	DIN EN ISO 1133	220 °C, 10 kg	g/10 min	35
Thermal conductivity	DIN 52612	--	W/(K·m)	0.18
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 55 °C	10 ⁻⁴ · K ⁻¹	0.85
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.3 - 0.7
Flammability (File No.: 148878 → UL listed)	UL94	1.5 mm	--	HB

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