

TECHNICAL DATA SHEET

ROTEC[®] ABS 5001

ROMIRA

ABS, injection moulding grade, high-impact

PROPERTY	Test Method	Condition	Unit	Value*
MECHANICAL.....				
Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	2,100
Tensile Strength	DIN EN ISO 527	50 mm/min 23 °C	MPa	45
Tensile Strain at Break	DIN EN ISO 527	50 mm/min 23 °C	%	5
Elongation at Break	DIN EN ISO 527	50 mm/min 23 °C	%	20
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	2,200
Flexural Strength	DIN EN ISO 178	2 mm/min 23 °C	MPa	70
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m ²	21
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	1.04
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	-
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	97
Melt Mass-Flow Rate (MFR)	DIN EN ISO 1133	220 °C, 10 kg	g/10 min	18
Thermal conductivity	DIN 52612	--	W/(K·m)	0.17
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 55 °C	10 ⁻⁴ · K ⁻¹	0.9
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.5 - 0.7
Flammability (File No.: 148878 → UL listed)	UL94	1.5 mm	--	HB

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