

# TECHNICAL DATA SHEET

## ROTEC<sup>®</sup> ABS 3001

# ROMIRA

ABS, injection moulding grade, impact modified

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

Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	2,400
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	%	18
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	2,400
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 <sup>2</sup>	16
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23 °C	kJ/m <sup>2</sup>	n.b.

### PHYSICAL.....

Density	DIN EN ISO 1183	23 °C, 50 % RH	g/cm <sup>3</sup>	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	91
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	98
Melt Mass-Flow Rate (MFR)	DIN EN ISO 1133	220 °C, 10 kg	g/10 min	20
Thermal conductivity	DIN 52612	--	W/(K·m)	0.18
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 55 °C	10 <sup>-4</sup> · K <sup>-1</sup>	0.85
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.4 - 0.6
Glow Wire Flammability Index (GWFI)	DIN EN 60695-2-12	3.0 mm	°C	600
Glow Wire Ignition Temperature (GWIT)	DIN EN 60695-2-13	3.0 mm	°C	625
Flammability (File No.: 148878 → UL listed)	UL94	1.5 mm	--	HB

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### ELECTRICAL.....

Relative Permittivity	IEC 60250	100 Hz / 1 MHz	--	03.Jan
Volume Resistivity	DIN IEC 60093	--	Ohm · m	10E13
Surface Resistivity	DIN IEC 60093	--	Ohm	10E15
Dielectric Strength	DIN EN 60243-1	1 mm	kV/mm	33

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