

# Technical Data Sheet



## ROTEC® ABS 1001 FR V0/4

*Injection moulding grade, easy-flowing, flame retardant*

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Condition</i>	<i>Value*</i>
<b>Mechanical .....</b>				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,800
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	42
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	10
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,600
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	65
Notched Impact Strength (Charpy)	kJ/m <sup>2</sup>	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C	12
Impact Strength (Charpy)	kJ/m <sup>2</sup>	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C	70 - n.b.
<b>Physical .....</b>				
Density	g/cm <sup>3</sup>	DIN EN ISO 1183	23°C, 50% RH	1.20
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	0.3
<b>Thermal .....</b>				
Heat Distortion Temperature A	°C	DIN EN ISO 75/1	1.8 MPa	75
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	86
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	220°C, 10 kg	64
Ball Indentation Test	mm	DIN EN 60695-10-2	3 mm 75°C	< 2
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.3 - 0.6
Glow Wire Flammability Index (GWFI)	°C	DIN EN 60695-2-12	2.0 mm	850
Glow Wire Ignition Temperature (GWIT)	°C	DIN EN 60695-2-13	1.5 mm / 3.0 mm	750 / 700
Flammability (File No.: E148878 → UL listed)	--	UL94	1.5 mm	V-0

\* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.

**ROMIRA GMBH**