

Technical Data Sheet



ROTEC® ABS 3001

Injection moulding grade, impact-resistant

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Condition</i>	<i>Value*</i>
Mechanical				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,400
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	47
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	18
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,400
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	75
Notched Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C	16
Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C	n.b.
Physical				
Density	g/cm ³	DIN EN ISO 1183	23°C, 50% RH	1.04
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	0.3
Thermal				
Heat Distortion Temperature A	°C	DIN EN ISO 75/1	1.8 MPa	91
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	98
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	220°C, 10 kg	20
Thermal Conductivity	W/(K·m)	DIN 52612	--	0.18
Thermal Coefficient of Linear Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 55°C	0.85
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.4 - 0.6
Glow Wire Flammability Index (GWFI)	°C	DIN EN 60695-2-12	3.0 mm	600
Glow Wire Ignition Temperature (GWIT)	°C	DIN EN 60695-2-13	3.0 mm	625
Flammability (File No.: E148878 → UL listed)	--	UL94	1.5 mm	HB
Electrical				
Relative Permittivity	--	IEC 60250	100 Hz / 1 MHz	3.1 / 2.9
Specific Volume Resistance	Ohm · m	DIN IEC 60093	--	10 ¹³
Specific Surface Resistance	Ohm	DIN IEC 60093	--	10 ¹⁵
Electric Strength	kV/mm	DIN EN 60243-1	1.0 mm	33

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

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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