

Technical Data Sheet



ROTEC® ABS 1002 FR/E

Extrusion and injection moulding grade, flame retardant

Properties	Unit	Test Method	Test Condition	Value*
Mechanical				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,550
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	35
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	26
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	60
Notched Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	17 / 8
Impact Strength (Charpy)	kJ/m ²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.
Physical				
Density	g/cm ³	DIN EN ISO 1183	23°C, 50% RH	1.18
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	-
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	93
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	220°C, 10 kg	9
Thermal Coefficient of Linear Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 55°C	-
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.3 - 0.6
Flammability (File No.: E148878 → UL listed)	--	UL94	1.5 mm / 3.0 mm	V-0 / V-0, 5VA

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

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