

Technical Data Sheet

ROTEC® ABS 1001



Standard injection moulding grade

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Condition</i>	<i>Value*</i>	<i>Remarks</i>
<i>Mechanical.....</i>					
Tensile Modulus	MPa	ISO 527	23°C 1 mm/min	2,600	
Tensile Strength	MPa	ISO 527	23°C 50 mm/min	49	
Elongation at Break	%	ISO 527	23°C 50 mm/min	15	
Flexural Modulus	MPa	ISO 178	23°C 2 mm/min	2,700	
Flexural Strength	MPa	ISO 178	23°C 2 mm/min	80	
Impact Strength Notched (Charpy)	kJ/m ²	ISO 179 1eA	80 x 10 x 4 mm 23°C	12	
Impact Strength (Charpy)	kJ/m ²	ISO 179 1eU	80 x 10 x 4 mm 23°C	n.b.	
<i>Physical.....</i>					
Density	g/cm ³	ISO 1183	23°C, 50% RH	1.06	
Water Absorption	%	ISO 62	23°C, 24 h	0.3	
<i>Thermal.....</i>					
Heat Distortion Temperature (HDT A)	°C	ISO 75	1.8 MPa	80	
Vicat Softening Temperature (B 50)	°C	ISO 306	50°C/h 50 N	100	
Melt Flow Rate MFR	g/10 min	ISO 1133	220°C 10 kg	21	
Thermal Conductivity	W/(K·m)	DIN 52612		0.18	
Linear Thermal Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 55°C	0.85	
Moulding Shrinkage	%	ISO 294-4	23°C	0.3 - 0.7	
Flammability	Class	UL 94	1.5 mm	HB	UL listed

* = Average figures which could vary with each production batch due to addition of pigments, antistatic agents, slip agents, light stabilizers or other additives.

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