

Technical Data Sheet

ROTEC® ABS 5001/05



Plating grade, high impact

<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	2,500	
Tensile Strength	MPa	ISO 527	23°C 50 mm/min	42	
Elongation at Break	%	ISO 527	23°C 50 mm/min	40	
Flexural Modulus	MPa	ISO 178	23°C 2 mm/min	2,400	
Flexural Strength	MPa	ISO 178	23°C 2 mm/min	70	
Impact Strength Notched (Charpy)	kJ/m²	ISO 179 1eA	80 x 10 x 4 mm 23°C	28	
Impact Strength (Charpy)	kJ/m²	ISO 179 1eU	80 x 10 x 4 mm 23°C	n.b.	
<i>Physical.....</i>					
Density	g/cm³	ISO 1183	23°C, 50% RH	1.04	
Water Absorption	%	ISO 62	23°C, 24 h	0.3	
<i>Thermal.....</i>					
Vicat Softening Temperature (B 50)	°C	ISO 306	50°C/h 50 N	97	
Melt Flow Rate MFR	g/10 min	ISO 1133	220°C 10 kg	20	
Thermal Conductivity	W/(K·m)	DIN 52612	260 x 260 x 10 mm	0.17	
Linear Thermal Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 55°C	0.90	
Moulding Shrinkage	%	ISO 294-4	23°C	0.5 - 0.7	
Flammability (own test)	Class	UL 94	1.6 mm	HB	

* = 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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