

# Technical Data Sheet



## ROTEC® ABS 3001 TR-AC

*Transparent grade, waterclear, easy-flowing*

<i>Properties</i>	<i>Unit</i>	<i>Test Method</i>	<i>Test Condition</i>	<i>Value*</i>
<b><i>Mechanical .....</i></b>				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,100
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	43
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	30
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,050
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	66
Notched Impact Strength (Charpy)	kJ/m <sup>2</sup>	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	15 / 8.7
Impact Strength (Charpy)	kJ/m <sup>2</sup>	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.
<b><i>Physical .....</i></b>				
Density	g/cm <sup>3</sup>	DIN EN ISO 1183	23°C, 50% RH	1.09
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	0.3
<b><i>Thermal .....</i></b>				
Heat Distortion Temperature A	°C	DIN EN ISO 75/1	1.8 MPa	82
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	94
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	220°C, 10 kg	24
Thermal Conductivity	W/(K·m)	DIN 52612	--	-
Thermal Coefficient of Linear Expansion	10 <sup>-4</sup> · K <sup>-1</sup>	ISO 11359-2	23°C - 55°C	-
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.3 - 0.6
Flammability (own testing)	--	UL94	1.5 mm	HB

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

**ROMIRA GMBH**