

Rotec® ABS 1001 TR

Acrylonitrile Butadiene Styrene

ROMIRA GmbH

Message:

Rotec® ABS 1001 TR is an acrylonitrile butadiene styrene (ABS) material. This product is available in Europe.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	g/10 min	ISO 1133
Molding Shrinkage	0.30	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	49.0	MPa	ISO 527-2
Flexural Modulus (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	78.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ISO 306/B50

Additional Information

Most tests were performed under DIN test standards. Density, DIN 53479, 23°C, 50% RH: 1.11 g/ml Mold Shrinkage, DIN 16901, 23°C: 0.3 % Charpy Notched Bar Impact Strength, ISO 179, 23°C, Type 1, Edgewise, Notch A, 80x10x4, Natural: 11 kJ/m² Charpy Unnotched Impact Strength, ISO 179, 23°C, Type 1, Edgewise, 80x10x4, Color/Natural: 70 to 90 kJ/m²

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