Technical Data Sheet

ROTEC® ABS TM 20

Injection moulding grade, excellent chemical resistance, high heat resistance, low emission

Properties	*Unit*	*Test Method*	*Test Condition*	**Value***
Mechanical				
Tensile Modulus	MPa	DIN EN ISO 527	23°C 1 mm/min	2,500
Tensile Strength	MPa	DIN EN ISO 527	23°C 50 mm/min	39
Elongation at Break	%	DIN EN ISO 527	23°C 50 mm/min	15
Flexural Modulus	MPa	DIN EN ISO 178	23°C 2 mm/min	2,340
Flexural Strength	MPa	DIN EN ISO 178	23°C 2 mm/min	66
Notched Impact Strength (Charpy)	kJ/m²	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23°C / -30°C	16 / 10
Impact Strength (Charpy)	kJ/m²	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.
Physical				
Density	g/cm³	DIN EN ISO 1183	23°C, 50% RH	1.05
Water Absorption	%	DIN EN ISO 62	23°C, 24 h	-
Thermal				
Heat Distortion Temperature B	°C	DIN EN ISO 75/1	0.45 MPa	87
Vicat Softening Temperature B 50	°C	DIN EN ISO 306	50 N 50°C/h	107
Melt Mass Flow Rate (MFR)	g/10 min	DIN EN ISO 1133	220°C, 10 kg	10
Thermal Conductivity	W/(K·m)	DIN 52612	--	-
Thermal Coefficient of Linear Expansion	$10^{-4} \cdot K^{-1}$	ISO 11359-2	23°C - 55°C	-
Processing Shrinkage	%	DIN EN ISO 294-4	23°C	0.5 - 0.6
Flammability (own testing)	--	UL94	1.6 mm	HB

* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.
The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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