TECHNICAL DATA SHEET
ROTEC® ABS SE 5/02

ABS, extrusion and injection moulding grade, super-impact

PROPERTY	Test Method	Condition	Unit	Value*
MECHANICAL.....				
Tensile Modulus	DIN EN ISO 527	1 mm/min 23 °C	MPa	2,100
Tensile Strength	DIN EN ISO 527	50 mm/min 23 °C	MPa	41
Elongation at Break	DIN EN ISO 527	50 mm/min 23 °C	%	17
Flexural Modulus	DIN EN ISO 178	2 mm/min 23 °C	MPa	2,300
Flexural Strength	DIN EN ISO 178	2 mm/min 23 °C	MPa	67
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm 23 °C	kJ/m²	40
Notched Impact Strength (Charpy)	DIN EN ISO 179/1eA	80 x 10 x 4 mm -30 °C	kJ/m²	22
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm 23 °C	kJ/m²	n.b.
Impact Strength (Charpy)	DIN EN ISO 179/1eU	80 x 10 x 4 mm -30 °C	kJ/m²	n.b.
PHYSICAL.....				
Density	DIN EN ISO 1183	23 °C, 50 % RH	g/cm³	1.03
Water Absorption	DIN EN ISO 62	23 °C, 50 % RH, 24 h	%	0.3
THERMAL.....				
Heat deflection temperature (HDT/B)	DIN EN ISO 75-1	0,45 MPa	°C	86
Vicat Softening Temperature (B 50)	DIN EN ISO 306	50 N, 50 °C/h	°C	93
Melt Mass-Flow Rate (MFR)	DIN EN ISO 1133	220 °C, 10 kg	g/10 min	6
Thermal conductivity	DIN 52612	--	W/(K·m)	0.17
Thermal Coefficient of Linear Expansion	ISO 11359-2	23 °C - 55 °C	$10^{4} \cdot K^{-1}$	0.95
Processing Shrinkage	DIN EN ISO 294-4	23 °C	%	0.6 - 0.8
Flammability (own test)	UL94	1.5 mm	--	HB

* = The given values are guide values only and no binding minimal values or product specifications. Factors as the mould design, processing conditions and colouring of the product may influence the properties. The information is given in good faith and based on our current knowledge, but the actual application is beyond our control. Thus the processors is responsible for carrying out their own tests and experiments. 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.

ROMIRA GMBH Siemensstr. 1-3 25421 Pinneberg / Germany Tel. : +49 (0)4101 706 – 03 www.romira.de info@romira.de

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