

Technical Data Sheet

ROTEC® ABS SE 5/02



Injection moulding and extrusion grade, high impact

Properties	Unit	Test Method	Test Condition	Value*	Remarks
Mechanical.....					
Tensile Modulus	MPa	ISO 527	23°C 1 mm/min	2,100	
Tensile Strength	MPa	ISO 527	23°C 50 mm/min	41	
Elongation at Break	%	ISO 527	23°C 50 mm/min	17	
Flexural Modulus	MPa	ISO 178	23°C 2 mm/min	2,300	
Flexural Strength	MPa	ISO 178	23°C 2 mm/min	67	
Impact Strength Notched (Charpy)	kJ/m²	ISO 179 1eA	80 x 10 x 4 mm 23°C / -30°C	40 / 22	
Impact Strength (Charpy)	kJ/m²	ISO 179 1eU	80 x 10 x 4 mm 23°C / -30°C	n.b. / n.b.	
Physical.....					
Density	g/cm³	ISO 1183	23°C, 50% RH	1.03	
Water Absorption	%	ISO 62	23°C, 24 h	0.3	
Thermal.....					
Vicat Softening Temperature (B 50)	°C	ISO 306	50°C/h 50 N	93	
Melt Flow Rate MFR	g/10 min	ISO 1133	220°C 10 kg	6	
Thermal Conductivity	W/(K·m)	DIN 52612		0.17	
Linear Thermal Expansion	10 ⁻⁴ · K ⁻¹	ISO 11359-2	23°C - 55°C	0.95	
Flammability (own test)	Class	UL 94	1.5 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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