ABS Rod Extruded

Natural

Technical Sheet

	Test	Unit	Value
Specific gravity (ρ)	ISO 1183	g/cm³	1,04
Water absorption	ISO 62	%	0,4
Maximum permissible service temp	-	-	-
(no stronger mechanical stress involved)			
Upper temperature limit	-	°C	70
Lower temperature limit	-	°C	50
Tensile strength at yield	ISO 527	MPa	45
Elongation at yield. (ε_S)	ISO 527	%	-
Tensile strength at break (σ_R)	ISO 527	MPa	-
Elongation at break (ε_R)	ISO 527	%	-
Impact strength (a_n)	ISO 179	kJ/m2	333
Notch impact strength (a_k)	ISO 179	kJ/m2	37
Ball indentation / Rockwell hardness	ISO 20391	MPa	R 105
ShoreD	DIN 53505		70
Flexural strength (σB 3,5 %)	ISO 178	MPa	67
Modulus of elasticity (E_t)	ISO 527	MPa	2260
Vicat softening point VST/B/50	ISO 306	°C	103
VST/A/50	ISO 306	°C	-
Heat deflection temperature HDT/B	ISO 75	°C	100
HDT/A	ISO 75	°C	88
Coefficient of linear thermal expansion α	DIN 53752	$K_1 * 10_4$	-
Thermal conductivity at 20 °C (λ)	DIN 52612	W/(m∗K)	-
Volume resistivity	VDE 0303	Ω∗cm	-

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Surface resistivity (R_o)	VDE 0303	Ω	-
Dielectric constant at 1MHz (ε_r)	DIN 53483	-	-
Dielectric loss factor at 1 MHz ($\tan\delta$)	DIN 53483	-	-
Dielectric strength	VDE 0303	kV/mm	-
Tracking resistance	IEC 60112	-	-
Bond ability	-	-	+
Friction coefficient	DIN 53375	-	-
Flammability	UL 94	-	HB
UV stabilisation	-	-	-

All The above information is for guide purposes only. The data has been taken from standard test results provided by manufactures.