

Acrylic Tube Extruded Technical Sheet

Clear



	Test	Unit	Value
Specific gravity (ρ)	ISO 1183	g/cm ³	1.18
Water absorption	ISO 62	%	0.3
Maximum permissible service temp	-	-	-
(no stronger mechanical stress involved)			
Upper temperature limit	-	°C	70
Lower temperature limit	-	°C	-
Tensile strength at yield	ISO 527	MPa	72
Elongation at yield. (ϵ_s)	ISO 527	%	-
Tensile strength at break (σ_R)	ISO 527	MPa	-
Elongation at break (ϵ_R)	ISO 527	%	4.5
Impact strength (a_n)	ISO 179	kJ/m ²	12
Notch impact strength (a_k)	ISO 179	kJ/m ²	2
Ball indentation / Rockwell hardness	ISO 20391	MPa	-
ShoreD	DIN 53505		-
Flexural strength (σ_B 3.5 %)	ISO 178	MPa	105
Modulus of elasticity (E_t)	ISO 527	MPa	3300
Vicat-softening point VST/B/50	ISO 306	°C	102
VST/A/50	ISO 306	°C	-
Heat deflection temperature HDT/B	ISO 75	°C	-
HDT/A	ISO 75	°C	90
Coefficient of linear thermal expansion α	DIN 53752	K ⁻¹ *10 ⁴	0.7
Thermal conductivity at 20 °C (λ)	DIN 52612	W/(m*K)	0.19
Volume resistivity	VDE 0303	Ω *cm	$\geq 10^{15}$

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Surface resistivity (R_o)	VDE 0303	Ω	$\geq 10^{13}$
Dielectric constant at 1MHz (ϵ_r)	DIN 53483	-	2.7
Dielectric loss factor at 1 MHz ($\tan\delta$)	DIN 53483	-	0.02
Dielectric strength	VDE 0303	kV/mm	30
Tracking resistance	IEC 60112	-	CTI ≥ 600
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.