

Akrylon XT

Description

Extruded acrylic (PMMA) sheets are highly transparent with a very good optical features. Material is thermoplastic, resistant to weather conditions, UV stable and rigid. Available in clear, opal and coloured versions.

Technical data

Density	[g/cm ³]	EN ISO 1183	1.19
Light Transmission (3mm)	[%]	EN ISO 13468-1	93
Refractive Index	[nD]	EN ISO 489	1.492
Haze (AKRYLON XT clear)	[%]	ISO 14782	0.6
Tensile strength at break	[MPa]	EN ISO 527-2	70
Elongation at break	[%]	EN ISO 527-2	4
Tensile modulus	[MPa]	EN ISO 527-2	3200
Flexural Strength	[MPa]	EN ISO 178	115
Ball indentation hardness	[N/mm ²]	EN ISO 2039-1	175
Impact strength Charpy Unnotched	[kJ/m ²]	EN ISO 179	17
Impact strength Charpy Notched	[kJ/m ²]	EN ISO 179	2
Vicat softening temperature (B 50)	[°C]	EN ISO 306	105
Temperature of deflection underload (A 1,8 MPa)	[°C]	EN ISO 75	95
Coeff. of Linear Expansion	[K ⁻¹]	DIN 53752	70x10 ⁻⁶
Degradation temperature	[°C]		>280
Combustibility grade		EN 13501-1	E
Relative permittivity (50Hz)		DIN 53483-2	2.7
Relative permittivity (1 kHz)		DIN 53483-2	3.1
Relative permittivity (1 MHz)		DIN 53483-2	2.7
Dielectric Strength	[kVmm]	DIN 53481	30
Electrical Strength	[kVmm]	IEC 60243-1	10
Surface Resistivity	[Ω]	IEC 60093	3x10 ¹⁵ -3x10 ¹⁶
Volume Resistivity	[Ωxm]	IEC 60093	1x10 ¹³ -5x10 ¹³
Thickness tolerances 1.5mm up to 3mm	[%]		+/- 10
Thickness tolerances 3mm up to 15mm	[%]		+/- 5

Finishing and machining

Cutting, sawing, drilling, bending, thermoforming, routing



The following technical details are issued to the best of our knowledge, however, without any responsibility for results due to several different kinds of material and application processes. Therefore, we highly recommend that before every usage a test should be conducted on the original material.