ACRYLEX EXTRUDED ACRYLIC

GENERAL Property	Method	Units	
Density	EN ISO 1183	g/cm³	1,19

OPTICAL Property	Method	Units	
Light Transmission (clear) (3mm)	EN ISO 13468-1	%	93
Refractive Index (clear)	EN ISO 489	nD	1,492
Haze (clear)	ISO 14782	%	0.6

MECHANICAL Property	Method	Units	
Tensile strength at break	EN ISO 527-2	MPa	70
Elongation at break	EN ISO 527-2	%	4
Tensile modulus	EN ISO 527-2	MPa	3200
Flexural Strength	EN ISO 178	MPa	115
Ball indentation hardness	EN ISO 2039-1	N/mm²	175
Impact strength Charpy Unnotched	EN ISO 179	kJ/m²	17
Impact strength Charpy Notched	EN ISO 179	kJ/m²	2

THERMAL Property	Method	Units	
Vicat softening temperature (B 50)	EN ISO 306	°C	105
Temperature of deflection underload (A 1,8 MPa)	EN ISO 75	°C	95
Coeff. of Linear Expansion	DIN 53752	K^{-1}	$70x10^{-6}$
Degradation temperature		°C	> 280
Combustibility grade	EN 13501-1		E

ELECTRICAL Property	Method	Units	
Relative permittivity (50Hz)	DIN 53483-2		2,7
Relative permittivity (1 kHz)	DIN 53483-2		3,1
Relative permittivity (1 kHz)	DIN 53483-2		2,7
Dielectric Strength	DIN 53481	kVmm	30
Electrical Strength	IEC 60243-1	kVmm	10
Surface Resistivity	IEC 60093	Ω	$3x10^{15}$ -$3x10^{16}$
Volume Resistivity	IEC 60093	Ωxm	$1x10^{13}$ -$5x10^{13}$

FIRE REACTION			
EN 13501-1	Classs E		
UL94	HB		

PROCESSING

☑ Sawing	☑ Flame polishing	☑ Vacuum forming
☑ Drilling	☑ Diamond polishing	☑ Drape forming
☑ Milling	☒ Cold bending	☑ Glueing
☑ Lasercutting	☑ Warm bending	☑ Printing
☑ Laser engraving	☑ Oven curving	

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