

# EXTRUDED ACRYLIC

GENERAL			
Property	Method	Units	
Density	EN ISO 1183	g/cm <sup>3</sup>	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/mm <sup>2</sup>	175
Impact strength Charpy Unnotched	EN ISO 179	kJ/m <sup>2</sup>	17
Impact strength Charpy Notched	EN ISO 179	kJ/m <sup>2</sup>	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 <sup>-1</sup>	70x10 <sup>-6</sup>
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 <sup>15</sup> -3x10 <sup>16</sup>
Volume Resistivity	IEC 60093	Ωxm	1x10 <sup>13</sup> -5x10 <sup>13</sup>

FIRE RESISTANCE			
EN 13501-1	Classs E		
UL94	HB		

PROCESSING			
<input checked="" type="checkbox"/> Sawing	<input checked="" type="checkbox"/> Flame polishing	<input checked="" type="checkbox"/> Vacuum forming	
<input checked="" type="checkbox"/> Drilling	<input checked="" type="checkbox"/> Diamond polishing	<input checked="" type="checkbox"/> Drape forming	
<input checked="" type="checkbox"/> Milling	<input checked="" type="checkbox"/> Cold bending	<input checked="" type="checkbox"/> Glueing	
<input checked="" type="checkbox"/> Lasercutting	<input checked="" type="checkbox"/> Warm bending	<input checked="" type="checkbox"/> Printing	
<input checked="" type="checkbox"/> Laser engraving	<input checked="" type="checkbox"/> Oven curving		

Suggestions and data on datasheet are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.