



# Technical Data Sheet PMMA XT HB

**Feedstock:** polymethylmethacrylate, extruded

## Mechanical properties:

Green density <sup>1</sup>	ISO 1183	≈ 1,19	g/cm <sup>3</sup>
Yield stress	ISO 527	≥ 70	(MPa) N/mm <sup>2</sup>
Expansion at yield stress	ISO 527	≥ 4	%
Impact Charpy +23°C notched	ISO179	2	kJ/m <sup>2</sup>

<sup>1</sup> This value can slightly vary as a result of pigmentation or addition.

## Thermal properties:

Permanent service temperature max.		70	°C
Vicat Softening Point B/50	ISO 306	≥ 103	°C
Heat Distortion Temperature (A)	ISO 75	95	°C
Thermal conductivity	ASTM C177	≥ 0,18	W/mK

## Electrical properties:

Specific volume resistivity	DIN EN 61340-5-1	≥ 10 <sup>13</sup>	Ωcm
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## Chemical resistance (PMMA in general):

resistant: acids and bases to a certain medium concentration; nonpolar solvents  
(aliphatic hydrocarbons, oils)

not resistant: <sup>2</sup> - nitro cellulose paints; concentrated acids  
<sup>3</sup> - polar solvents (ester; ketones; chlorinated hydrocarbons)

<sup>2</sup>maschinenbau-wissen.de

<sup>3</sup>resinex.de

## Inflammability support material:

Flammability rating	UL 94	HB
UL file number		E251546
Glow wire test 650 °C	IEC 695-2-1	-

	1,5mm	2mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm
Plexiglas XT, colourless	X	X	X	X	X	X	X	X	X
Plexiglas, antiflex XT		X	X	X					

**More thicknesses on request!**

**Printability:** printable

Current state: 27.11.2017

Ein Unternehmen der