

## Extruded Acrylic sheet – Stock Shapes

### Chemical designation

PMMA

### Colour

### Density

1.19 g/cm<sup>3</sup>

### Fillers

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<b>Mechanical properties</b>	<b>parameter</b>	<b>value</b>	<b>unit</b>	<b>norm</b>	<b>comment</b>
Modulus of elasticity (tensile test)		3000 – 3300	Mpa	ISO 527	
Tensile strength		72	Mpa	ISO 527	
Elongation at break		4	%	ISO 527	
Flexural strength		115	Mpa	ISO 178	
Compression strength		110	Mpa	ISO 604	
Impact strength		10 - 12	kJ/m <sup>2</sup>	ISO 179-1	

<b>Thermal properties</b>	<b>parameter</b>	<b>value</b>	<b>unit</b>	<b>norm</b>	<b>comment</b>
Heat Stability – Vicat B		105	°C	ISO 306	
Forming Temperature		130-190	°C		
Service Temperature (MAX)		80	°C		
Thermal expansion (CLTE)		0.07	M/mm °C	ISO 11359-2	
Specific heat		1.47	kJ/kg °C	ISO 11357-4	
Thermal conductivity		0.17	W/m °C	DIN 52612	

<b>Electrical properties</b>	<b>parameter</b>	<b>value</b>	<b>unit</b>	<b>norm</b>	<b>comment</b>
Dielectric strength		20-25	kV/mm	DIN 53481	
Volume Resistivity		10 <sup>15</sup>	Ω*cm	DIN 53482	

<b>Other properties</b>	<b>parameter</b>	<b>value</b>	<b>unit</b>	<b>norm</b>	<b>comment</b>
Water Absorption	24h	0.30	%	ISO 62	

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