

PMMA EXTRUDED SHEET

<u>GENERAL PROPERTIES</u>	<u>CONDITIONS</u>	<u>TEST METHOD</u>	<u>UNIT</u>	<u>VALUE</u>
Density		ISO 1183	gr/cm ³	1,19
Water Absorbtion (24h)	23C / 50% RH (24h)	ISO 62	%	0,3
Moulding Shrinkage		ASTM D-955	%	0,2-0,6
<u>MECHANICAL PROPERTIES</u>				
Tensile Strength at Break	23° C	ISO 527-2	MPa	83
Elongation at break	23° C	ISO 527-2	%	5
Tensile Modulus	23° C	ISO 527-2	MPa	3200
Flexural Strength at Break	23° C	ISO 178	MPa	120
Flexural Modulus	23° C	ISO 178	MPa	3100
Charpy Impact Strength with Notched	23° C	ISO 179-1eA	kJ/m ²	2,0
Rockwell Hardness M Scale		ISO 2039-2	M -scale	92
<u>THERMAL PROPERTIES</u>				
Vicat Temperature	50 N	ISO 306	°C	105
Deflection temperature under load	1,8 MPa	ISO 75	°C	99
Coefficient of linear expansion		ISO 11359-2	mm/m°C	0,07
<u>OPTICAL PROPERTIES</u>				
Light Transmission		ASTM D 1003	%	92
Refractive Index		ISO 489		1,49
<u>ELECTRICAL PROPERTIES</u>				
Dielectrical Strength		DIN 53481	kV/mm	20
Dielectric Constant	to 1 KHz	DIN 53483		3,1
<u>FLAMMABILITY</u>				
Fire Resistance		DIN 4102		B2