

Technical Data Sheet

PMMA Acrylic Sheet



GENERAL				
General Properties	Conditions	Test Method	Unit	Value
Density		ISO 1183	g/cm3	1.20
Water Absorbtion (24h)	23°C / 50% RH (24h)	ISO 62	%	0.3
Moulding Shrinkage		ASTM D-955	%	0.2-0.6
MECHANICAL				
General Properties	Conditions	Test Method	Unit	Value
Tensile Strength at Break	23°C	ISO 527-2	MPa	83
Econgation at break	23°C	ISO 527-2	%	7
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	3300
Charpy Impact Strength with Notched	23°C	ISO 179-1eA	kJ/m2	2
Izod Impact Strength		ISO 178	kJ/m22, 1	
Rockwell Hardness M Scale		ISO 2039-2	M-scale92	
THERMAL				
General Properties	Conditions	Test Method	Unit	Value
Vicat Temperature	50 N	ISO 306	°C	105
Deflection temperature under load	1.8 MPa	ISO 75	°C	100
Coefficient of linear expansion		ISO 11359-2	mm/m °C	0.07
THERMAL				
General Properties	Conditions	Test Method	Unit	Value
Dielectric Strength		DIN53481	kV/mm	20
Dielectric Constant	1 KHz	DIN 53843		3.1

