



TECHNICAL DATASHEET

# PMMA XT

Acrylic XT sheets

PROPERTY	UNIT	VALUE	STANDARD	VARIABLE
<b>General</b>				
Density	g/cm <sup>3</sup>	1,19	ISO 1183	
<b>Mechanical</b>				
Tensile strength to breakage	MPa	83	ISO 527	
Elongation to breakage	%	5	ISO 527	
Elasticity modulus in traction	MPa	3200	ISO 527	
Flexing resistance	MPa	120	ISO 178	
Charpy impact test unnotched	kJ/m <sup>2</sup>	20	ISO 527	
Rockwell hardness, M/R scale		92		
Ball pressure hardness	MPa	185	ISO 2039	
<b>Optical</b>				
Light transmission	%	92	ASTM D-1003	clear
Light transmission	%	33		white opal 2mm
Light transmission	%	29		white opal 3 mm
Light transmission	%	24		white opal 4 mm
Light transmission	%	22		white opal 5 mm
Light transmission	%	4		white
Light transmission	%	0		black
Refractive index		1,489	ASTM D-542	
<b>Thermal</b>				
Maximum service temperature	°C	80		
Vicat softening temperature	°C	116	ISO 306	10 N
Vicat softening temperature	°C	107	ISO 306	50 N
Softening temperature, HDT A	°C	97	ISO 75-2	1,8 MPa
Softening temperature, HDT B	°C	101	ISO 75-2	0,45 MPa
Linear expansion coefficient	mm/m/ 10 °C	0,6		
<b>Fire classification</b>				
Fire rating EU		E	EN 13501	

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