



TECHNICAL DATASHEET

PMMA GS

Acrylic GS sheets

PROPERTY	UNIT	VALUE	STANDARD	VARIABLE
General				
Density	g/cm ³	1,19	ISO 1183	
Water absorption	%	0,3	ISO R 62 DIN 53495	24 h
Mechanical				
Coëfficiënt of elasticity due to pulling stress	MPa	3300	ISO 527- 2/1 B/1	23 °C
Ultimate elongation	%	5	ISO 527- 2/1 B/5	23 °C
Tensile strength	MPa	76	ISO 527- 2/1 B/5	23 °C
Flexing resistance	MPa	110	ISO 178	
Compression resistance	MPa	110	ISO 604	
Izod impact resistance notched	kJ/m ²	1,4	ISO 180/1 A	
Charpy impact resistance unnotched	kJ/m ²	13	ISO 179/1	
Abrasion resistance	%	0,5 - 1	ISO 14782	
Maximum allowed tension	MPa	5 - 7		
Minimum cold curvature radius	mm	330*thickness		
Poisson coëfficiënt		0,39	ISO 527-1	
Optical				
Light transmission	%	92	ISO 4892- 1 DIN 5036	clear, frost
Light transmission	%	1		dense colors, satin
Light transmission	%	1		dense colors, letter
Haze	%	< 0,5	ASTM D-1003	clear
Refraction index	°C	1,49	ISO 4892 DIN 53491	clear
Thermal				
Softening temperature (Vicat)	°C	> 108	ISO R 306 A 50 ISO 75/A	
Deflection temperature (HDT)	°C	> 102	ISO 75/A	

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PROPERTY	UNIT	VALUE	STANDARD	VARIABLE
Thermal				
Maximum long term use temperature	°C	80		
Linear Expansion Coefficient	mm/m/ 10°C	0,6	VDE 0304/1	
Thermal conductivity	W/m/°C	0,17	DIN 52612	
Thermoforming				
Thermoforming interval	°C	140 - 190		
Heating furnace temperature	°C	130 - 180		
Maximum heating temperature	°C	200		
Shrinkage after heating	%	2,5 max.		
Fire classification				
Self-ignition temperature	°C	≈ 430	DIN 51794	
Fire rating EU		E	EN 13501	

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