



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	

The technical data given in this sheet correspond to our current state of knowledge and should not be construed as an agreement or guarantee regarding certain properties of our products. The decision on the suitability of a particular material for a specific application is up to the user. We reserve the right to modify the given data. Errors of the given data are reserved.



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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	