

Technical Data Sheet PMMA GS

Feedstock: polymethylmethacrylate, cast

Mechanical properties:

Green density ¹	ISO 1183	≈ 1,19	g/cm ³
Yield stress	ISO 527	≥ 75	(MPa) N/mm ²
Expansion at yield stress	ISO 527	≥ 5,5	%
Impact Charpy +23°C notched	ISO179	2	kJ/m ²

¹ This value can slightly vary as a result of pigmentation or addition.

Thermal properties:

Permanent service temperature		80	°C
Vicat Softening Point B/50	ISO 306	≥ 110	°C
Heat Distortion Temperature (A)	ISO 75	105	°C
Thermal conductivity	ASTM C177	0,19	W/mK

Electrical properties:

Specific volume resistivity	DIN EN 61340-5-1	> 10 ¹⁵	Ωcm
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Chemical resistance (PMMA in general):

resistant:	acids and bases to a certain medium concentration; nonpolar solvents (aliphatic hydrocarbons, oils)
not resistant:	² – nitro cellulose paints; concentrated acids ³ – polar solvents (ester; ketones; chlorinated hydrocarbons)

²maschinenbau-wissen.de

³resinex.de

Inflammability support material:

Flammability rating	UL 94	HB
UL file number	E65495	
Glow wire test 650 °C	IEC 695-2-1	-

Colours and thicknesses on request!

Printability: printable

Current state: 27.11.2017

Ein Unternehmen der