

For its creations ICMP uses first-rate factory and best-quality products, which, apart from being guaranteed against ageing, allow a high light diffusion. Moreover, thanks to their special structure (shape), they have self-cleaning capacities.

According to the different applications, the company uses:

- Flat polymethylmethacrylate (PMMA) plates free from extruded recovered monomer "Plexiglas".
- Flat polymethylmethacrylate (PMMA) plates free from strained recovered monomer "Plexiglas".
- Flat compact polycarbonate plates (PC), unbreakable, U.V. rays protected, self-extinguishing class 1.

MATERIAL TECHNICAL CHARACTERISTICS

Properties	Normative	Unit to Measure	Polymethylmetacrilate "Plexiglas®"	Compact Polycarbonate
Specific weight	ISO 1183-DIN 3479	g/cm ³	1,19	1,20
Resilience to traction 23°C	ISO 527-DIN 53455	Mpa	72	60
Resilience to flexion σ_{bB} unified sample (80x10x4mm)	ISO178-DIN 53452	Mpa	105	100
Resilience to Charly impact (without engraving, 23°)	ISO 179	KJ/m ²	15	does not break
Resilience to Izod impact (with engraving, 23°)	ISO 180	KJ/m ²	1,6	90
Heat conductivity λ	DIN 52612	W/m ² C	0,19	0,20
Softening temperature (Procedure Vicat B50)	ISO 306	°C	102	151
Behaviour to fire (material thickness $\geq 1,5$ mm)	DIN 4102	Classe	B2 (normally inflammable)	
	CSE	Classe		1 (self-extinguishing)
light transmission τ_{D65} , thickness .3 mm conveyance ($\lambda=380\dots780$ nm)	DIN 5036	%	~ 92	
	ASTM 1003	%		89

We thanks Röhm - Altumax -Brett Martin for having provided the above mentioned data

N.B.:	I.C.M.P. does not guarantee any possible differences of PMMA and/or PC colour shade. I.C.M.P. reserves the right to modify and change its production with unchallengeable judgement and without any advance notice.
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Heat dispersion K coefficient :

Single wall K 4,6 Cal/m2h°C
 Double wall K 2,01 Cal/m2h°C
 Triple wall K 1,52 Cal/m2h°C