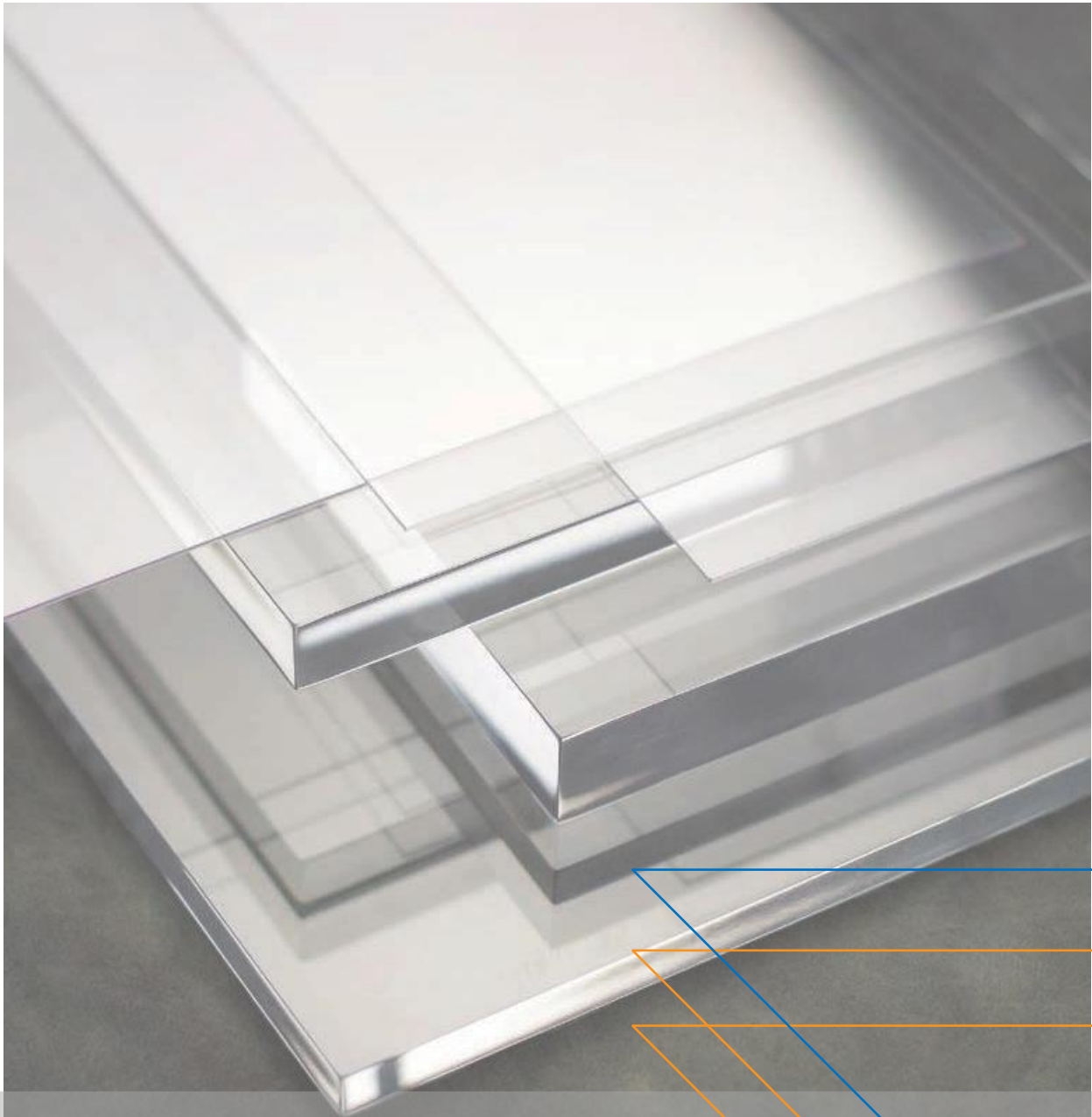


POLICRYL

Clear PMMA based solid sheets



TECHNICAL DATA SHEET



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POLICRYL

ABOUT PRODUCT

POLICRYL is a top-quality extruded Polymethyl Methacrylate (PMMA) solid sheet with outstanding strength, stiffness, and optical clarity. The **POLICRYL** sheet exhibits excellent optical clarity and transparency with a visible light transmittance of 92%. (PMMA) Material has a unique inherent resistance to UV-radiation, which extends products service life.

PROPERTY	STANDARD	UNIT	VALUE
PHYSICAL PROPERTIES			
Density	ISO 1183-1	g/cm ³	1,19
Moisture absorption	ISO 62	%	0,3
MECHANICAL PROPERTIES			
Tensile strength	ISO 527-2	MPa	72
Elongation at break	ISO 527-2	%	4
Tensile modulus	ISO 527-2	MPa	3300
Flexural strength	ISO 178	MPa	106
Flexural modulus	ISO 178	MPa	3350
Compressive strength	ISO 604	MPa	117
Rockwell hardness	M scale	-	95
Impact resistance (Charpy unnotched)	ISO 179/1fu	kJ/m ²	15
Impact resistance (Charpy notched)	ISO 179/1eA	kJ/m ²	2
Impact resistance (Izod notched)	ISO 180/1A	kJ/m ²	1.5
THERMAL PROPERTIES			
Vicat softening temperature	DIN EN ISO 306	°C	105
Thermal conductivity	ISO 8302	W/mK	0,19
Coefficient of Linear Thermal Expansion	ISO 11359-2	mm/m °C	0,065
Heat deflection temperature under load (HDT)	DIN EN ISO R75	-	95
ELECTRICAL PROPERTIES			
Dielectric strength	DIN VDE 0303	kV/mm	20-25
Volume resistivity	DIN VDE 0303	Ω · cm	>10 ¹⁵
Surface resistivity	DIN VDE 0303	Ω	>10 ¹⁴
OPTICAL PROPERTIES			
Light transmission	DIN 5036	%	Up to 92
Total energy transmittance g	DIN EN 410	%	85
Refractive index	ISO 489	-	1,49