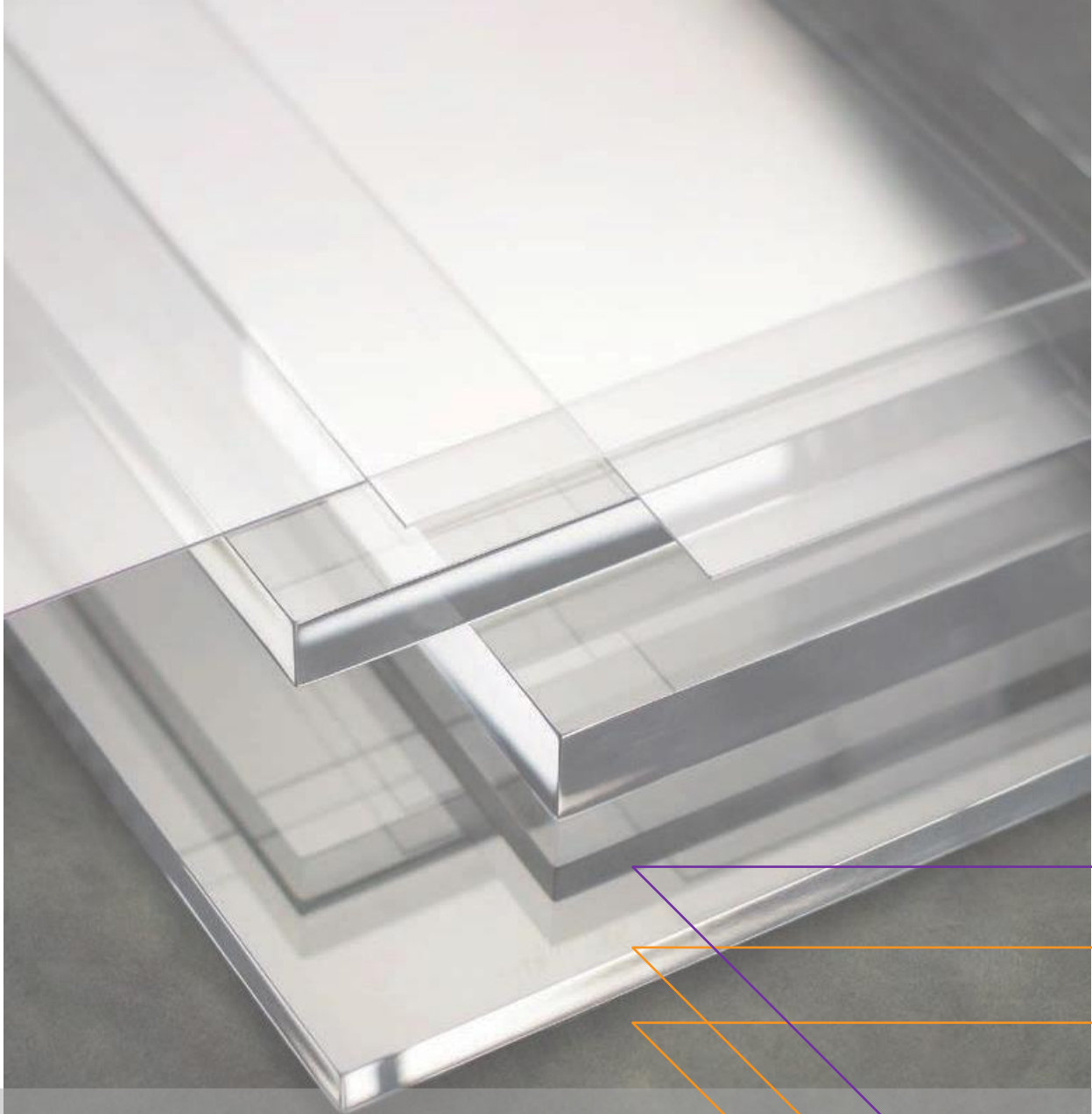


# POLILON-MONO

Clear PC based solid sheets



## TECHNICAL DATA SHEET



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# POLILON-MONO

## ABOUT PRODUCT

**POLILON MONO** is a premium quality extruded polycarbonate (PC) solid sheet with double sided UV-protection. This product has extremely high impact resistance, which makes it essentially unbreakable. **POLILON MONO** solid sheets is the ideal choice for applications where high optical clarity and impact resistance is required. It can be easily thermoformed and fabricated.

PROPERTY	STANDARD	UNIT	VALUE
<b>PHYSICAL PROPERTIES</b>			
Density	ISO 1183-1	g/cm <sup>3</sup>	1,20
Moisture absorption	ISO 62	%	0,15
<b>MECHANICAL PROPERTIES</b>			
Tensile modulus	ISO 527-1,-2	MPa	2300
Yield stress	ISO 527-1,-2	%	> 60
Yield strain	ISO 527-1,-2	MPa	6
Nominal strain at break	ISO 527-1,-2	%	> 50
Flexural modulus	ISO 178	MPa	2300
Flexural strength	ISO 178	MPa	90
Impact resistance (Charpy unnotched)	ISO 179/1eU	kJ/m <sup>2</sup>	non-break
Impact resistance (Charpy notched)	ISO 179/1eA	kJ/m <sup>2</sup>	35
Impact resistance (Izod notched)	ISO 180/1A	kJ/m <sup>2</sup>	> 65
<b>THERMAL PROPERTIES</b>			
Vicat softening temperature	DIN EN ISO 306	°C	144
Thermal conductivity	ISO 8302	W/mK	0,2
Coefficient of linear thermal expansion	DIN 53483	mm/m °C	0,065
Heat deflection temperature under load (HDT)	DIN EN ISO R 75	-	130
<b>ELECTRICAL PROPERTIES</b>			
Dielectric strength	DIN VDE 0303	kV/mm	-
Volume resistivity	DIN VDE 0303	Ω · cm	>10 <sup>15</sup>
Surface resistivity	DIN VDE 0303	Ω	>10 <sup>14</sup>
<b>OPTICAL PROPERTIES</b>			
Light transmission	DIN 5036	%	Up to 90
Total energy transmittance g	DIN EN 410	%	82
Refractive index	ISO 489	-	1,587