

Polycarbonate solid sheets

Description

Clear solid polycarbonate sheets are highly transparent, thermoplastic and impact resistant. Adding a good fire behaviour characteristics it is an optimal choice for building, industrial as well as signage material, able to meet highest demands.

Technical data

Density	[g/cm ³]	ISO 1183	1,2
Light transmission (Depending on thickness)	[%]	ASTM D 1003	81 - 90
Refractive index		ISO 489	1.585
Water absorption	[%]	ISO 62 (1)	0.15
Tensile Strength at yield	[MPa]	ISO 527-2	60
Tensile Modulus	[MPa]	ISO 527-2	2300
Elongation at break	[%]	ISO 527-2	>120
Elongation at yield	[%]	ISO 527-2	6
Flexural Modulus	[MPa]	ISO 178	2300
Charpy Un-notched	[kJ/m ²]	ISO 179/1fu	NB
Izod Impact notched	[kJ/m ²]	ISO 180/1a	>65
Temp of deflection (HDT) Under load of 1.8MPa	[°C]	ISO 75-1	130
Vicat softening temp (50°C/h 50N)	[°C]	ISO 306	144
Thermal conductivity	[W/mK]	ASTM C177	0.2
Coefficient of linear thermal expansion 0-50°C	[µm/m °C]		6.5
Volume Resistivity	[Ω x cm]	IEC 60093	>10 ¹⁴
Surface Resistivity, dry	[Ω]	IEC 60093	>10 ¹⁵
Dissipation Factor 1Mhz		DIN 53483	0.009
Dissipation Factor 50Hz		DIN 53483	0.0006

Finishing and machining

Cutting, sawing, drilling, bending, thermoforming, routing, break forming



The following technical details are issued to the best of our knowledge, however, without any responsibility for results due to several different kinds of material and application processes. Therefore, we highly recommend that before every usage a test should be conducted on the original material.