PRODUCT DATA SHEET

PC POLYCARBONATE

Color: Clear

Mechanical Properties	**Test Method**	**Value**	**Unit**
Tensile strength at yield (at break)	ISO 527	60 (70)	N/mm^2
Elongation at yield (at break)	ISO 527	6 (110)	%
Elastic modulus	ISO 527	>2300	N/mm^2
Flexural modulus	ISO 178	>2300	N/mm^2
Charpy unnotched impact strength -40 °C	ISO 179/1eU	NB	kJ/m^2
Charpy notched impact strength -30 °C	ISO 179/1eU	11	kJ/m^2
Izod notched impact strength +23 °C	ISO 180/1A	65	kJ/m^2
Izod notched impact strength -30 °C	ISO 180/1A	10	kJ/m^2
Physicla Properties			
Density	ISO 1183	1,2	g/cm^3
Refractive index (20 °C)	ISO 489	1,586	
Moisture absorption 24 hours, 23 °C, 50% RH	ISO 62	0,15	%
Electrical Properties			
Volume resistivity, dry	IEC 62631	$>10^{14}$	Ω .m
Surface resistivity, dry	IEC 62631	10^{16}	Ω
Dielectric strength, dry	IEC 60243	30	kV/mm
Dielectric constant, dry 50 Hz	IEC 62631	3	
Dielectric constant, dry 1 MHz	IEC 62631	2,9	
Dissipation factor (tan δ), dry 50 Hz	IEC 62631	0,001	
Dissipation factor (tan δ), dry 1 Hz	IEC 62631	0,01	
Thermal Propertie			
Linear coefficient of thermal expansion (20-70 °C)	ISO 11359-2	$65 \times 10^{-6}\ K^{-1}$	T.I.
Heat deflection temperature, HDT A (1,80 N/mm2)	ISO 75	132	°C
Heat deflection temperature, HDT B (0,45 N/mm2)	ISO 75	142	°C
Vicat temperature VST/B 120	ISO 306	149	°C
Vicat temperature VST/B 50	ISO 306	148	°C
Thermal conductivity	DIN 8302	0,20	W/mK

Additonal Data:

Embossing: IEC ™, TEX ™, Grain 35, ANTI-REFLEX ™
Standard sizes: 3050 x 2050 mm, 2050 x 1250 mm
Thickness range: 0,8 – 20mm
Sizes and thickness on request
Excellent fire performance complying requirements to EN 13501-1 (European building std).

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