

**TECHNICAL DATA SHEET**
**POLYCARBONATE SHEETS, EXTRUDED – STANDARD AND UV PROTECTED - CLEAR  
DIN 11963 – DIN EN 16240**

<b>GENERAL</b>			
<b>Property</b>	<b>Method</b>	<b>Unit</b>	<b>IMPEX<sup>®</sup></b>
Density	DIN EN ISO 1183	g/cm <sup>3</sup>	1.2
Ball Indentation Hardness (H359/30``)	DIN EN ISO 2039-1	MPa	110
Water vapour permeability $\delta$	DIN EN ISO 12572	mg/m h Pa	$3.8 \times 10^{-5}$
<b>MECHANICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Unit</b>	<b>IMPEX<sup>®</sup></b>
Flexural Modulus	DIN EN ISO 178	MPa	2000
Flexural Strength	DIN EN ISO 178	MPa	>90
Tensile Modulus	DIN EN ISO 527-2	MPa	2200
Tensile Strength	DIN EN ISO 527-2	MPa	60
Elongation	DIN EN ISO 527-2	%	80
Impact strength - Izod (notched)	DIN EN ISO 180	kJ/m <sup>2</sup>	>10
Impact strength - Charpy (notched)	DIN EN ISO 179-1/1eA	kJ/m <sup>2</sup>	>13
Impact strength - Charpy (unnotched)	DIN EN ISO 179-1	kJ/m <sup>2</sup>	NB
<b>OPTICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Unit</b>	<b>IMPEX<sup>®</sup></b>
Light Transmission	DIN 5036 DIN EN 13468-1	%	86
Refractive Index	DIN EN ISO 489	$n_D^{20}$	1.585
Solar energy transmittance (g value)	EN 410	%	3mm – 81.7 10mm – 78.5

**TECHNICAL DATA SHEET**
**POLYCARBONATE SHEETS, EXTRUDED – STANDARD AND UV PROTECTED - CLEAR  
DIN 11963 – DIN EN 16240**

<b>THERMAL</b>			
<b>Property</b>	<b>Methode</b>	<b>Unit</b>	<b>IMPEX<sup>®</sup></b>
Vicat Temperature (method B 50)	DIN EN ISO 306	°C	145
Heat Deflection Temperature HDT/A	DIN EN ISO R75	°C	135
Specific Heat Capacity	DIN EN ISO 11357-4	J/gK	1.17
Coefficient of linear thermal expansion	DIN 53328 ISO 11359-1, -2	mm / m °C	0.065
Thermal conductivity	DIN 52612 DIN EN ISO 22007-1	W/mK	0.2
Degradation temperature	-	°C	>280
Temperature range	-	°C	-40°C to +135 °C
Max. service temperature continuous use	-	°C	115
Max service temperature short term use	-	°C	135
Forming temperature	-	°C	180 - 210
<b>ELECTRICAL</b>			
<b>Property</b>	<b>Methode</b>	<b>Unit</b>	<b>IMPEX<sup>®</sup></b>
Dielectric constant (50 Hz)	IEC 250, DIN 53483	-	3.0
Volume Resistivity	IEC 60093, DIN 53482	Ω.cm	10 <sup>15</sup>
Surface Resistivity	IEC 60093, DIN 53482	Ω	10 <sup>15</sup>
Dielectric strength	IEC 60243-1, DIN 53481	kV/mm	>30
Dissipation Factor (50 Hz)	IEC 250, DIN 53483	-	8 x 10 <sup>-4</sup>
Comparative tracking index	DIN EN 60112:2010-05	CTI - Value	CTI – 250 <1

**TECHNICAL DATA SHEET**
**POLYCARBONATE SHEETS, EXTRUDED – STANDARD AND UV PROTECTED - CLEAR  
DIN 11963 – DIN EN 16240**

<b>OTHERS</b>			
<b>Property</b>	<b>Methode</b>	<b>Unit</b>	<b>IMPEX<sup>®</sup></b>
Fire performance (building product) (1.5 mm – 6 mm)	BPR 305/2011 DIN EN 13501-1	Classification	B – s1 – d0
Biocompatibility (skin contact)	DIN EN 10993-5	Classification	Not cytotoxic
Resistance to manual attack (steel ball) (4 – 8 – 15 mm)	DIN EN 356	Class	EN356 – P5A
Resistance to manual attack (ax) (8 – 15 mm)	DIN EN 356	Class	EN356 – P8B
Pendulum Impact test (190 – 1200 mm drop height) (Thickness 2 – 12mm)	DIN EN 12600	Class	No break

Remark: Technical data of our products are typical ones. The actually measured values are subject to production variations.