

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

| GENERAL | | | |
|---------------------------------------|----------------------------|-------------------|---------------------------|
| Property | Method | Unit | IMPEX[®] |
| Density | DIN EN ISO 1183 | g/cm ³ | 1.2 |
| Ball Indentation Hardness (H359/30``) | DIN EN ISO 2039-1 | MPa | 110 |
| Water vapour permeability δ | DIN EN ISO 12572 | mg/m h Pa | 3.8×10^{-5} |
| MECHANICAL | | | |
| Property | Method | Unit | IMPEX[®] |
| 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 ² | >10 |
| Impact strength - Charpy (notched) | DIN EN ISO 179-1/1eA | kJ/m ² | >13 |
| Impact strength - Charpy (unnotched) | DIN EN ISO 179-1 | kJ/m ² | NB |
| OPTICAL | | | |
| Property | Method | Unit | IMPEX[®] |
| 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**

| THERMAL | | | |
|---|---------------------------------|-------------|--------------------------|
| Property | Methode | Unit | IMPEX[®] |
| 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 |
| ELECTRICAL | | | |
| Property | Methode | Unit | IMPEX[®] |
| Dielectric constant (50 Hz) | IEC 250, DIN 53483 | - | 3.0 |
| Volume Resistivity | IEC 60093, DIN 53482 | Ω.cm | 10 ¹⁵ |
| Surface Resistivity | IEC 60093, DIN 53482 | Ω | 10 ¹⁵ |
| Dielectric strength | IEC 60243-1, DIN 53481 | kV/mm | >30 |
| Dissipation Factor (50 Hz) | IEC 250, DIN 53483 | - | 8 x 10 ⁻⁴ |
| 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**

| OTHERS | | | |
|---|--------------------------------|----------------|--------------------------|
| Property | Methode | Unit | IMPEX[®] |
| 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.