



**TECHNICAL DATA SHEET**

**POLYCARBONAT SHEETS (DIN EN ISO 11963 – DIN EN 16240) - HARD COATED**

<b>GENERAL</b>			
<b>Property</b>	<b>Method</b>	<b>Unit</b>	<b>IMPEX® HC</b>
Density	DIN EN ISO 1183	g/cm <sup>3</sup>	1.2
<b>MECHANICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Unit</b>	<b>IMPEX® HC</b>
Tensile Modulus (3mm)	DIN EN ISO 527-2	MPa	2400
Tensile Strength (3mm)	DIN EN ISO 527-2	MPa	65
Elongation (3mm)	DIN EN ISO 527-2	%	16
Impact strength – Izod (notched) (3mm)	DIN EN ISO 180	kJ/m <sup>2</sup>	64 P* <sup>1</sup>
Impact strength – Charpy (notched) (3mm)	DIN EN ISO 179-1/1eA	kJ/m <sup>2</sup>	67 C* <sup>2</sup>
Impact strength – Charpy (unnotched) (3mm)	DIN EN ISO 179-1	kJ/m <sup>2</sup>	No Break
<b>OPTICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Unit</b>	<b>IMPEX® HC</b>
Light transmission (3mm)	DIN 5036 DIN EN ISO 13468	%	86
Taber – Abrasion test 100 cycles	Taber Test: DIN 52347 / ASTM D1044  Haze measurement: ISO 14782 / ASTM D1003	%ΔHaze	2-4
Cross cut test	ISO 2409	-	0 / 0
Cross cut test after boiling (1h/95°C)	ISO 2409	-	0

<sup>1</sup> Fracture behavior acc. Test standard: P\* = partial break

<sup>2</sup> Fracture behavior acc. Test standard: C\*= complete break

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THERMAL			
Property	Method	Unit	IMPEX® HC
Vicat temperature (VST/B 50)	DIN EN ISO 306	°C	145
Thermal conductivity	DIN 52612	W /m K	0.2
Max. service temperature (continuous use)		°C	115
ELECTRICAL			
Property	Method	Unit	IMPEX® HC
Volume Resistivity	DIN 53482	Ω.cm	10 <sup>16</sup>
Dielectric Strength	DIN 53481	kV/mm	>30
OTHERS			
Property	Method	Unit	IMPEX® HC
Fire performance (3mm)	EN 13501	classification	B-s1, d0

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