

TECHNICAL DATA SHEET

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

GENERAL			
Property	Method	Unit	IMPEX [®] HC
Density	DIN EN ISO 1183	g/cm ³	1.2
MECHANICAL			
Property	Method	Unit	IMPEX [®] HC
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 ²	64 P ^{*1}
Impact strength – Charpy (notched) (3mm)	DIN EN ISO 179-1/1eA	kJ/m ²	67 C ^{*2}
Impact strength – Charpy (unnotched) (3mm)	DIN EN ISO 179-1	kJ/m ²	No Break
OPTICAL			
Property	Method	Unit	IMPEX [®] HC
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

¹ Fracture behavior acc. Test standard: P* = partial break

² 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 ¹⁶
Dielectric Strength	DIN 53481	kV/mm	>30
OTHERS			
Property	Method	Unit	IMPEX [®] HC
Fire performance (3mm)	EN 13501	classification	B-s2, d0

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