

TECHNICAL DATA SHEET
EXTRUDED STYRENE ACRYLONITRILE COPOLYMER SHEETS

GENERAL			
Property	Method	Units	POLYCASA® SAN
Density	ISO 1183	g/cm ³	1,08
Rockwell hardness	ISO 2039-2	M scale	83
MECHANICAL			
Property	Method	Units	POLYCASA® SAN
Flexural modulus	ISO 178	MPa	3750
Flexural strength	ISO 178	MPa	105
Tensile modulus	ISO 527-2	MPa	3900
Tensile strength	ISO 527-2	MPa	60
Elongation	ISO 527-2	%	1,8
Izod (notched)	ISO 180	kJ/m ²	1,3
Charpy (unnotched)	ISO 179-1	kJ/m ²	13
OPTICAL			
Property	Method	Units	POLYCASA® SAN
Light transmission	5036-3	%	DIN 86
Refractive index	ISO 489	-	1,57
THERMAL			
Property	Method	Units	POLYCASA® SAN
Vicat temperature (B)	ISO 306	°C	106
Heat Deflection temperature (A/B)	ISO 75	°C	98/101
Specific heat capacity	ASTM D-2766	J/gK	1,38
Coefficient of linear expansion	DIN 53752	K ⁻¹ x10 ⁻⁵	5 - 7
Thermal conductivity	DIN 52612	W/mK	0,17

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Degradation temperature	-	°C	>280
Max. service temperature	-	°C	85
Sheet forming temperature range	-	°C	165 - 190
ELEKTRICAL			
Property	Method	Units	POLYCASA® SAN
Volume resistivity	IEC 6093	Ω.m	10 ¹⁴
Surface resistivity	IEC 6093	Ω	≥10 ¹⁵
OTHER			
Property	Method	Units	POLYCASA® SAN
Fire resistance	UL94	flame class	HB
Fire performance	DIN EN 13501-1	classification	E
Food contact - GMP	EU direction 1035/2004 VO 10/2011	-	Conform
Biocompatibility	DIN ISO 10993-5	-	No cytotoxic

Notice: Technical data of our products are typical ones; the actually measured values are subject to production variations.
All mentioned data is based on extruded sheets in a thickness of 4 mm.