

**POLYCASA<sup>®</sup> SAN**


<b>GENERAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>POLYCASA<sup>®</sup> SAN</b>
Density	ISO 1183	g/cm <sup>3</sup>	1,08
Rockwell hardness	ISO 2039-2	M scale	83
<b>MECHANICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>POLYCASA<sup>®</sup> SAN</b>
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 <sup>2</sup>	1,3
Charpy (unnotched)	ISO 179-1	kJ/m <sup>2</sup>	13
<b>OPTICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>POLYCASA<sup>®</sup> SAN</b>
Light transmission	DIN 5036-3	%	86
Refractive index	ISO 489		1,57
<b>THERMAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>POLYCASA<sup>®</sup> SAN</b>
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 <sup>-1</sup> x10 <sup>-5</sup>	5 - 7
Thermal conductivity	DIN 52612	W/mK	0,17
Degradation temperature		°C	>280
Max. service temperature		°C	85
Sheet forming temperature range		°C	165 - 190
<b>ELEKTRICAL</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>POLYCASA<sup>®</sup> SAN</b>
Volume resistivity	IEC 6093	Ω.m	10 <sup>14</sup>
Surface resistivity	IEC 6093	Ω	≥10 <sup>15</sup>
<b>OTHER</b>			
<b>Property</b>	<b>Method</b>	<b>Units</b>	<b>POLYCASA<sup>®</sup> SAN</b>
Fire resistance	UL94	flame class	HB
Fire performance	DIN EN 13501-1	classification	E
Food contact - GMP	EU direction 1035/2004VO 10/2011		Conform
Biocompatibility	DIN ISO 10993-5		No cytotoxic

Note: Technical data of our products are typical ones; the actually measured values are subject to production variations.