TECHNICAL DATASHEET

EXTRUDED POLYSTYRENE SHEETS

GENERAL			
Property	**Method**	**Unit**	**POLYCASA® PS**
Density	ISO 1183	g/cm^3	1,05
Rockwell hardness	ISO 2039-1	Scale M	150
MECHANICAL			
Property	**Method**	**Unit**	**POLYCASA® PS**
Flexural Modulus	ISO 178	MPa	3450
Flexural Strength	ISO 178	MPa	85
Tensile Modulus	ISO 527-2	MPa	3400
Tensile Strength	ISO 527-2	MPa	45
Elongation	ISO 527-2	%	3
Charpy (notched)	ISO 179-1	kJ/m^2	-
Charpy (unnotched)	ISO 179-1	kJ/m2	6
OPTICAL			
Property	**Method**	**Unit**	**POLYCASA® PS**
Light transmission	DIN 5036-3	%	89
Refractive index	ISO 489	n^D_{20}	1,59
THERMAL			
Property	**Method**	**Unit**	**POLYCASA® PS**
Vicat temperature (VST/B 50)	ISO 306	°C	101
Heat deflection temperature (A)	ISO 75-2	°C	86
Specific heat capacity	ASTM D-2766	J/gK	1,8
Coefficient of linear thermal expansion	DIN 53752	$K^{-1}x10^{-5}$	8
Thermal conductivity	DIN 52612	W/mK	0,16

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Degradation temperature	-	°C	>280
Max. service temperature	-	°C	80
Sheet forming temperature range	-	°C	130 - 170
ELEKTRICAL			
Property	**Method**	**Unit**	**POLYCASA® PS**
Volume resistivity	DIN 53482	Ω.m	$>10^{14}$
Surface resistivity	DIN 53482	Ω	$>10^{14}$
OTHER			
Property	**Method**	**Unit**	**POLYCASA® PS**
Burning resistance	UL standard 94	-	94 HB
Fire performance	DIN EN 13501-1	classification	E

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.

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