

Material support S1 ACRYLIC SHEET.

RECYCLING POSSIBILITIES

Off-cuts from either cast or extruded sheet can be reprocessed without causing any special environmental problems, waste can be subjected to a "cracking" process. This allows recovery of the original monomer (methylmethacrylate).

Maintenance:

We suggest using soapy water but never any cleaning solvent, alcohol, window cleaner or any other detergent without knowing its specific ingredients.

Soapy water and soft cloth are best to prevent any panel damage.

Please note that a specific product suited for panel cleaning exists: Altuglas cleaner. It cleans the surface perfectly without leaving any stain however it will leave provide an invisible anti-static film keeping dust away from panel.

Scratches:

Removing light scratches on panel can be done by polishing. Clean with soapy water and dry (microfiber). Apply the polish and rub in a circular pattern to remove scratches. Repeat until complete removal. After polish application, use Altuglas cleaner or soapy water to restore shine and remove finger prints.

Cuts:

Panels are cut to required dimension, we therefore do not advise any further cutting which could permanently damage the printed surface. However, if you have to make adjustment cuts, make sure to protect all panel surfaces from friction. Circular saw is normally used for straight cut, inverted blade on jig saw can be use. In any case, we recommend you use a new blade with carbide teeth.

Please note that you can require a specific cut at the time of order. Finally apply fungi proof silicone sealant between wall and panel for wall to wall installation.



Technical DATA

	ISO	NF	Others	Units	Thickness	Valu
GENERAL PROPERTIES						
Water absorption, 24 hrs.	62	T 51002	DIN 53495	%	4	0.30
Water absorption, 8 days	62	T 51002	DIN 53495	%	4	0.50
Water absorption, max.			Internal	%	3	1.75
(Total immersion, 1200 hrs.)						
Density	1183	T 51063	DIN 53479			1.19
MECHANICAL PROPERTIES	S					
Poisson ratio to 20°C						0.39
Tensile strength to 23°C	527	T 51034	DIN 53455			
Stress at break	-2/1A/5			MPa	4	76
Modulus of elasticity				MPa	4	3300
Elongation at break				%	4	6
Tensile strength to - 20°C	527	T 31034	DIN 53455	MDo	4	102
Stress at break Elongation at break	-2/1A/5			MPa %	4 4	5
Tensile strength to 80°C	527	T 51304	DIN 53455	70	4	5
Stress at break	-2/1A/5	1 0 1004	511100400	MPa	4	24
Elongation at break				%	4	22
Flexural strength to 23°C	178*	T 51001	DIN 53452			
Stress at break				MPa	4	130
Modulus of elasticity				MPa	4	3250
Charpy impact strength (un-notched)	179/2D	T 51035	DIN 53453	Kj/m ²	4	12
Izod impact strength (notched)	180/1A		ASTM D256A	Kj/m ²	4	1.4
Hardness, Rockwell Scale M	2039		ASTM D 785			100
Hardness, Shore Scale D	868	T 51109				60-70
Compressive strength	684	T 51101	DIN 53454	MPa	4	130
Shear strength - dynamic modulus			DIN 53445	MPa		1700
OPTICAL PROPERTIES						
Light transmittance	T 51068	DIN 5036				
3 mm thick				%	3	92
5 mm thick				%	5	92
8 mm thick				%		
10 mm thick Refractive index	T 51044	DIN 5349	01	%	10	92 1.492
Nondelive index	1 0 1004	:			ļ.,	1.472
ELECTRICAL PROPERTIES						
Dielectric strength		C 26225	DIN 53481	KV/mm		20 to 2!
Transverse resistivity Dielectric constant		C 26215 C 26230	DIN 53482 DIN 53483	Ohm.cm		> 10.*
			DIN 33463			
to 50 Hz		0 20200				37
to 50 Hz to 1 MHz		0 20200				3.7 2.6
to 1 MHz	EN 2155-1		DIN 52328	mm/m/°C		
to 1 MHz THERMAL PROPERTIES	EN 2155-1		DIN 52328 DIN 52612	mm/m/°C W/m/°C		2.6
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion	EN 2155-1					2.6 0.065
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K	EN 2155-1		DIN 52612	W/m/°C J/g/°C		2.6 0.065 0.17 1.32
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick	EN 2155-1		DIN 52612 ASTM C 351	W/m/°C J/g/°C W/m²/°C	3	2.6 0.065 0.17 1.32 5.4
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick	EN 2155-1		DIN 52612 ASTM C 351	W/m/°C J/g/°C W/m²/°C W/m²/°C	3	2.6 0.065 0.17 1.32 5.4 5.1
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick		T 51251	DIN 52612 ASTM C 351 DIN 4701	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick	EN 2155-1		DIN 52612 ASTM C 351	W/m/°C J/g/°C W/m²/°C W/m²/°C	3	2.6 0.065 0.17 1.32 5.4 5.1
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load,	306	T 51251	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples		T 51251	DIN 52612 ASTM C 351 DIN 4701	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C °C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C °C °C °C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. heating temperature	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C °C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. heating temperature Max. linear shrinkage after heating, thickness ≥ 3 mm	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C °C °C °C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Max. heating temperature Max. Linear shrinkage after heating,	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C °C °C °C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190 200
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. linear shrinkage after heating, thickness < 3 mm Max. superficial temperature	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C	3	2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190 200 2
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Heat distortion temperature Forming oven temperature Max. Inear shrinkage after heating, thickness < 3 mm Max. superficial temperature under infrared	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460 DIN 53461	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C		2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190 200 2
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. linear shrinkage after heating, thickness < 3 mm Max. superficial temperature under infrared FLAMMABILITY	306	T 51251 T 51021	DIN 52612 ASTM C 351 DIN 4701 DIN 53460 DIN 53461	W/m/°C J/g/°C W/m²/°C W/m²/°C W/m²/°C °C °C		2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-19(200 2 2
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to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. heating temperature Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. linear shrinkage after heating, thickness < 4 mm Max. line	306	T 51251 T 51021 T 51005	DIN 52612 ASTM C 351 DIN 4701 DIN 53460 DIN 53461	W/m/°C J/g/°C W/m²/°C W/m²/°C w/m²/°C °C °C °C °C °C °C °C °C %		2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-19 200 2 2 2 2 2 2 2 2 2
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. heating temperature Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max. linear shrinkage after heating, thickness < 3 mm Max.linear shrinkage after heating, thickness < 4 mm Max.linear shrinkage after heati	306	T 51251 T 51021 T 51005	DIN 52612 ASTM C 351 DIN 4701 DIN 53460 DIN 53461	W/m/°C J/g/°C W/m²/°C W/m²/°C w/m²/°C °C °C °C °C °C °C °C °C %		2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-19(200 2 2 2 2 2 2 2 2
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to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 10 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. continuous service temperature Forming oven temperature Max. linear shrinkage after heating, thickness < 3 mm Max. superficial temperature Max. Inear shrinkage after heating, thickness < 3 mm Max. superficial temperature FLAMMABILITY Self-ignition temperature Flame resistance Flame resistance Flame resistance	306	T 51251 T 51021 T 51005	DIN 52612 ASTM C 351 DIN 4701 DIN 53460 DIN 53461 DIN 53461 DIN 53461 DIN 53461 DIN 53461 DIN 53461	W/m/°C J/g/°C W/m²/°C W/m²/°C w/m²/°C °C °C °C °C °C °C °C °C %		2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190 200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
to 1 MHz THERMAL PROPERTIES Coefficient of linear expansion Thermal conductivity Specific heat Insulation coefficient K 3 mm thick 5 mm thick 5 mm thick 10 mm thick Vicat softening point B 10/10, conditioned samples Heat distortion temperature under load, 1.8 N/mm_, conditioned samples Max. toroltinuous service temperature Forming oven temperature Max. linear shrinkage after heating, thickness ≥ 3 mm Max. Superficial temperature Infared FLAMMABILITY Self-ignition temperature Flame resistance Flame resistance Flame resistance Flame resistance Flame resistance	306	T 51251 T 51021 T 51005 P 92501 P 92505	DIN 52612 ASTM C 351 DIN 4701 DIN 53460 DIN 53460 DIN 53461 PIN 53461 DIN 53461 DIN 53461 DIN 53461 DIN 53461 DIN 53461 DIN 4102 BS 476 Pt. 7 UL 94	W/m/°C J/g/°C W/m²/°C W/m²/°C w/m²/°C °C °C % % °C		2.6 0.065 0.17 1.32 5.4 5.1 4.5 115 109 85 130-190 200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

