

mouse

Sheet extrusion

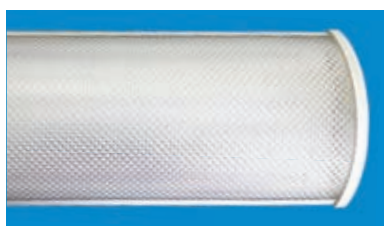
Product range

HIPS, GPPS

ABS

SAN

PMMA



SHEETS FOR SANITARY INDUSTRY

embossed sheets - DESIGN 13

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.6 - 5.0 mm	GPPS sheet weight in thickness 2.0 mm - 1.95 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 2050x1250x2.0 mm

embossed sheets - DESIGN 15

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.6 - 5.0 mm	GPPS sheet weight in thickness 2.0 mm - 1.93 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 2050x1250x2.0 mm

embossed sheets - DESIGN 17

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.6 - 5.0 mm	GPPS sheet weight in thickness 2.0 mm - 1.85 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 2050x1250x2.0 mm

embossed sheets - DESIGN 33

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.6 - 5.0 mm	GPPS sheet weight in thickness 1.6 mm - 1.38 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1850x1250x1.6 mm

embossed sheets - DESIGN 34

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.7 - 9.0 mm	GPPS sheet weight in thickness 2.0 mm - 1.92 kg/m ² .
Maximum sheet width - 1400 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1850x1250x2.0 mm

SHEETS FOR LIGHTING INDUSTRY

embossed sheets - DESIGN 22

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 2.4 - 5.0 mm	GPPS sheet weight in thickness 2.4 mm - 1.50 kg/m ² .
Maximum sheet width - 1200 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1850x1170x2.4 mm

embossed sheets - DESIGN 23

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 2.4 - 5.0 mm	GPPS sheet weight in thickness 2.4 mm - 1.50 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1850x1250x2.4 mm

embossed sheets - DESIGN 33

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.6 - 5.0 mm	GPPS sheet weight in thickness 1.6 mm - 1.38 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1850x1250x1.6 mm

embossed sheets - DESIGN 34

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 1.7 - 9.0 mm	GPPS sheet weight in thickness 2.0 mm - 1.92 kg/m ² .
Maximum sheet width - 1400 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1850x1250x2.0 mm

embossed sheets - DESIGN 35

Color - clear	Material - GPPS, SAN, PMMA
Sheet thickness - 2.5 - 9.0 mm	GPPS sheet weight in thickness 2.5 mm - 2.12 kg/m ² .
Maximum sheet width - 1400 mm	
Maximum sheet length - 3050 mm	Sheets on stock - GPPS 1910x1250x2.5 mm

GENERAL INDUSTRY

embossed sheets - DESIGN 31

Color - color	Material - HIPS, GPPS, ABS
Sheet thickness - 1.2 - 5.0 mm	HIPS sheet weight in thickness 2.0 mm - 1.90 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - HIPS, black, 2050x1230x2.0 mm

embossed sheets - DESIGN 39

Color - color	Material - HIPS, GPPS, ABS
Sheet thickness - 1.2 - 5.0 mm	HIPS sheet weight in thickness 2.0 mm - 2.08 kg/m ² .
Maximum sheet width - 1350 mm	
Maximum sheet length - 3050 mm	Sheets on stock - ABS, black, 2300x1200x4.0 mm

embossed sheets - DESIGN 34

Color - color	Material - HIPS, GPPS, ABS
Sheet thickness - 1.4 - 9.0 mm	HIPS sheet weight in thickness 2.0 mm - 1.92 kg/m ² .
Maximum sheet width - 1400 mm	
Maximum sheet length - 3050 mm	Sheets on stock - HIPS, black, 2050x1400x2.0 mm

MOUSE HIPS, GPPS sheets

Mouse-PS Ltd produce clear and colored PS sheets. They can be with different surfaces - gloss/gloss, gloss/matt or one side embossed and matt on other side. Co-extruded sheets in 2 layers (AB) or 3 layers (ABA) is possible. This sheets are used in advertising, lighting, sanitary and other industries. Clear sheets with light transmission 89 % have excellent transparency for interior glazing usage, lamps and ceiling light fittings. For this application we can provide also clear, opal white and one side embossed sheets. Low water absorption of sheets of polystyrene determine their use as bath or shower cabin doors. For this application we have few different sheets with modern designs. Other possibilities of these sheets include household items, displays, showcases, stairway sides, ambience dividers, vacuum formed parts or interior glazing for doors or windows.

MOUSE ABS sheets

Mouse-PS Ltd produce ABS sheets in any color. They can be with different surfaces - matt/matt or one side embossed and matt on other side. This sheets are used for production different parts in automotive or advertising industries and parts for household items and industrial covers. This sheets are very good for vacuum forming.

MOUSE SAN sheets (acrylonitrile styrene sheets)

Mouse-PS Ltd produce SAN sheets in clear color. One side embossed clear sheets have excellent transparency and can be used for lamps and ceiling light fittings.

Manufacturing features

Tolerances in cutting	HIPS, GPPS, SAN	PMMA
Long	+/- 2.0 mm	+/- 2.0 mm
Width	+/- 1.0 mm	+/- 1.0 mm
Squaring	3.0 mm	3.0 mm
Thickness	+/- 0.1 mm	<= 2.5 mm +/- 10% > 2.5 mm +/- 5%

Non-standard features

Cut-to-size	available on request, no minimum order quantity
Special thickness for PS, ABS sheets	on request, minimum order quantity 300 kg
Special color for PS, ABS sheets	on request, minimum order quantity 300 kg
PE protection film	on request, available on one or both sides
Corona treatment on HIPS, ABS sheets	available on request, minimum order quantity 300 kg

Technical features

Specifications	Code	Unit	PS	SANuv	PMMA
Physical					
Density	ISO1183	g.cm3	1.05	1.08	1.19
Mechanical					
Tensile strenght to deformation	ISO527	MPa	-	-	-
Tensile strenght to breaking	ISO527	MPa	59	67	83
Elongation to breaking	ISO527	%	3	2.5	5
Elasticity modulus in traction	ISO527	MPa	3250	3700	3200
Stiffness	ISO178	MPa	106	97	120
Charpy impact test with notched specimen	ISO179	Kj.m-2	1.47	1.28	-
Charpy impact test	ISO179	Kj.m-2	16	17	20
Rockwell hardness, M/R scale			92/-	83/-	
Ball pressure hardness	ISO2039	MPa	150	165	185
Optical					
Light transmission	ASTM D-1003	%	89	86	92
Reflective index	ASTM D-542	%	1.591	1.561	1.489
Thermal					
Maximum continuous usage temperature		oC	80	85	80
Softening temperature, VICAT (10N)	ISO306	oC	106	108	116
Softening temperature, VICAT (50N)	ISO306	oC	101	105	107
Heat deflection temperature, HDT A (1.80 MPa)	ISO75-2	oC	86	98	97
Heat deflection temperature, HDT B (0.45 MPa)	ISO75-2	oC	98	101	101
Coefficient of linear thermal expansion	ISO75-2	x105. oC-1	8	7	7

Chemical resistance

Chemical products	PS	SANuv	PMMA
Water	S	S	S
Detergents	S	S	R
Mineral oil	R	S	S
Vegetable oil	S	S	S
Acetone	U	U	U
Acetic acid	S	R	U
Turpentine	U	U	R
Ammonia	S	S	R
Ethanol	S	R	U
Petrol	U	S	S
Glycerine	S	S	S
Methanol	S	R	U
Toluene	U	U	U

Behaviour:

S (satisfactory)

R (regular)

U (unsatisfactory)



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This are standard characteristics of resins. This data comes from raw material values.