

Parapan[®] Tech Specification

Thickness	4mm and 18mm
Sheet sizes	Will accommodate virtually any size doors

PARAPAN[®] furniture-fronts made from solid 18mm acrylic material and 4mm material for furniture-doors are manufactured according to the requirements for furniture-fronts based on DIN 68 861.

MECHANICAL CHARACTERISTICS

Mechanical Characteristics	Parapan[®]	Unit	Test Regulation
Tensile strength	74	N/mm ²	ISO 527-2/1 B/5
Tensile elongation at break	5.5	%	ISO 527-2/1 B/5
Module of elasticity	min. 3100	N/mm ²	ISO 527-2/1 B/1
Apparent density	1.19	g/cm ³	ISO 1183
Peel strength of screws	1200	N	Internal Test
Tolerance of thickness	± 9 at 18mm ± 18 at 4mm	%	ISO 7823-1

THERMAL CHARACTERISTICS

Thermal Characteristics	Parapan[®]	Unit	Test Standard
Coefficient of elongation for 0 to 50 deg. C	70.10-6	1/K	DIN 53752-A
VICAT softening temperature	min. 105	deg.C	ISO 306/B
Dry heat	5	deg.C	EN12722
Wet heat	5	deg.C	EN12721

SURFACE CONDITION

Surface Condition	Parapan®	Unit	Test Regulation
Surface roughness	0.003	μ	DIN 4775
Gloss Level	high brilliancy	-	visual evaluated
Light resistance	fulfilled	Greyless standard	EN 4892
Abrasion resistance	fulfilled	150 U	DIN 68 861
Scratch resistance	fulfilled	-	DIN 68 861 T4

CHEMICAL LOADING

Chemical Loading	Functional Group	Parapan®	MDF-Alkyd-Resin-varnish	Compressed Wood DD-Varnish
NaCl saturated liquid	1A	unchanged	unchanged	unchanged
coffee, tea	1A	unchanged	unchanged	unchanged
wine, red and white	1A	unchanged	unchanged	unchanged
ethanol	1A	unchanged	unchanged	small change
olive oil	1A	unchanged	unchanged	unchanged
blackcurrant juice	1A	unchanged	unchanged	unchanged

WEIGHTS

18mm → 3000mm x 1000mm = 64kg

4mm → 3000mm x 1000mm = 14kg

FIRE RATING

PARAPAN® has the same fire-related behavior as standard acrylic sheets.

Testing according DIN 4102 has the following results:

Class B2 normal flammability

Class TR1 no burning droplets

Class Q1 low density smoke