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TECHNICAL DATA SHEET

ABS/PMMA (acrylonitrile butadiene styrene / polymethylmethacrylate)

ABS sheets co-extruded with PMMA (used for sanitary ware) are multi-layer sheets with a top layer of impact resistant modified acryl. The bottom ABS layer ensures high-quality forming, good impact strength and low temperature resistance. The acryl layer guards against UV rays, provides an excellent surface aspect of strong gloss and chemical fastness (inertness). ABS/PMMA sheets can be made in various colors to suit specific customer requirements.

		Unit	Test method, ISO	Values
Density		g/sm ³	1183	1,05
Yield stress		mPa	527-2/1B/20	35
Tensile strain at break		%	527	18
Charpy unnotched impact strength	23°C	kJ/m ²	179/1epA	30
Charpy notched impact strength	-30°C	kJ/m ²	179/1epA	25
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Heat deflection temperature ,(HDT)	1.80 MPa	°C	75-2Ae	87
Vicat softening temperature	50H/50°C	°C	306/B50	95

All above values apply to thermoplastics immediately after extrusion, with no aging effect.

Physical properties:

ABS/PMMA plastic shows high scratch resistance and resistance to bacterial growth (good biocide properties). The acryl layer guards against UV rays, provides an excellent surface aspect of strong gloss and chemical fastness.

Chemical properties:

Under normal ambient conditions, the plastic sheet resists acids, alkalies, light and oxygen, it is also oil- and water-proof. The plastic easily dissolves in carboxylic acids, esters, incl. intrinsic monomers, ketones, chlorinated and aromatic hydrocarbons.

Electric properties:

ABS/PMMA sheets shows good insulation properties and high dielectric strength.

Processing methods:

ABS/PMMA can be subjected to all types of machining:

- milling;
- cementing;
- all types of forming;
- blanking;
- laser cutting, etc.

Scope of application:

Plastics of ABS/PMMA compound are used for thermal forming of different sanitary products: baths, water basins, shower cabin modules, pans for showers, fountains, sauna elements, furniture and bathroom finishing. It is also good for refrigerator components, door & exterior trim in car building, can be helpful in production of outdoor advertising and retail/store equipment.

Form of delivery:

Thickness: up to 10 mm.

Width: up to 2,000 mm.

Surface aspect: gloss