

## TECHNICAL DATA SHEET ABS (acrylonitrile butadiene styrene)

ABS plastic sheets combine high impact resistance, good weather resistance. ABS-sheets was produced by monolayer or monolayer or multilayer extrusion. ABS-sheets can be made with smooth or structural surface, various colors or gradations which includes mat. UV-resistance is possible.

		Unit	Test method, ISO	Values
Density		g/sm <sup>3</sup>	1183	1,05
Yield stress		mPa	527-2/1B/20	33
Tensile strain at break		%	527	25
Charpy unnotched impact strength	23°C	kJ/m <sup>2</sup>	179/1epA	30
Charpy notched impact strength	-30°C	kJ/m <sup>2</sup>	179/1epA	25
Charpy unnotched impact strength	23°C	kJ/m <sup>2</sup>	179/1epA	25
Charpy notched impact strength	-30°C	kJ/m <sup>2</sup>	179/1epA	13
Heat deflection temperature ,(HDT)	1,8 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.

### 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.

### Physical properties:

- high hardness,

- resistance to temperature changes
- atmospheric resistance.

**Operating temperature:**

- heat resistance - 110-130°C
- short-duration heating – 90-100°C
- long-term usage – 75-80°C

**Flammability:**

- ignites under the influence of flame or appropriate amount of heat
- flamingly and unstable burns with smoke black.
- self-ignition - 350°C

**Electric properties:**

- high electrical resistance
- high dielectric loss.

**Processing methods:**

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

**Scope of application:**

- interior and exterior plastic spare parts for bus, vehicle, tractor (dashboards, wings, bumpers, roofs and etc.)
- furniture, suitcases.
- inside parts of refrigerators, iceboxes.
- advertising,
- sanitary equipment  
and more...

**Form of delivery:**

Thickness: up to 10 mm.

Width: up to 2,200 mm.