

## TECHNICAL DATA SHEET

### PC/ABS (acrylonitrile butadiene styrene + polycarbonate)

Plastic sheets from ABS/PC are composite material sheets on the basis of polycarbonate (PC) and acrylonitrile butadiene styrene (ABS) with perfect blend of mechanical, thermal and reological properties. ABS/PC parts feature good surface quality, stiffness, crack resistance, thermal form stability and high resilience.

		Unit	Test method, ISO	Values
Density		g/sm <sup>3</sup>	1183	1,11
Yield stress		mPa	527	35
Tensile strain at break		%	527	10
Charpy unnotched impact strength	23°C	kJ/m <sup>2</sup>	179	u/a
Charpy notched impact strength	23°C	kJ/m <sup>2</sup>	179/1epA	25
Flexural Modulus, at least		mPa	178	1470
Heat deflection temperature ,(HDT)	1.80 MPa	°C	75-2Ae	95
Vicat softening temperature	10H/50°C	°C	306/A50	130
	50H/50°C	°C	306/B50	115

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

**Chemical properties:** ABS/PC plastic shows good long-term weatherability, resistance to alcohols, saline solutions and oils. Note that alkalis, aliphatic hydrocarbons, chlorinated hydrocarbon may cause cracking.

**Physical properties:** ABS/PC plastic shows good stiffness, high impact resistance at low temperatures, high thermal stability, low deformation rate.

**Insulating properties:** The compound is a good dielectric.

**Dielectric strength:** 20-30 kV/mm, volume resistivity: 10<sup>16</sup> Ohm\*cm.

**Operation temperature:** Maximum temperature of long-term operation is 100°C.

**Processing methods:**

- pressing;
- pneumatic vacuum molding;
- machining;
- embossing;
- clear coating;
- hot rolling-up;
- welding (ultrasonic, heated tool, friction);
- cementing.

**Scope of application:**

interior and visible exterior parts of buses and vehicles, production of electric and electronic appliances, cases/housings of office equipment, household equipment, sports goods.

**Form of delivery:**

Thickness: 3-10 mm

Width: 2,100 mm max.

**Surface:** embossed, smooth, mat.