

## TECHNICAL DATA

### ABS

ABS is a polymer with the following characteristics: resistance to chemical attacks, hardness and stability at high temperatures. With a high impact resistance, ABS also has good thermal resistance qualities and is easy to thermoform and mechanise.

#### ADVANTAGES ABS

- High mechanical and chemical resistance.
- Minimum deformation.
- Excellent mechanical properties.
- Product homogeneity.
- Great rigidity.
- Good surface quality.

#### TYPES AND FORMATS

The ABS comes with a semi-glossy surface easy to thermoform. It is available in different colors and formats under request.

- Matt and extramatt options.
- Different engravings and surface textures.
- Possible layer of PMMA to improve its external exposure.
- ABS / PC options to improve the impact.

#### APPLICATION AREAS

- Machine covers and interior applications.
- Automotive industry.
- Prototyping in short series.
- Food contact applications.
- Electrical household carcasses.
- Refrigerating doors.
- Suitcases.

## TECHNICAL SPECIFICATIONS – ABS

Properties	Value	Unit	Standard
<b>Physical properties</b>			
Density ( A method )	1.05	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>			
Elastic modulus	1900	MPa	ISO 527
Tensile elongation at break	55	MPa	ISO 178
Ball indentation hardness	77	MPa	ISO 2039
Tensile strength at yield	33	MPa	ISO 527
<b>Thermal Properties</b>			
VICAT softening temperature	97	°C	ISO 308
Heat deflection temperature	86	°C	ISO 75 I
Flammability	1,6 mm	HB	- UL 94



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