ABS

Acrylonitrile butadiene styrene

DESIGNATION	CHEMICAL NAME	TYPE
ABS	Acrylonitrile butadiene styrene	Thermoplastic

General description

ABS is a thermoplastic with a good balance between physical and chemical properties.
Its impact strength and ageing resistance are particularly good.

Processing

ABS is available as semi-finished products in the form of sheets and rods.
It has good machining properties, and the material can be welded, bonded and thermoformed.

Applications

Vacuum-formed parts: covers, bathtubs and shower trays, ski boxes, interiors for trains, buses, aircraft and cars, transport boxes, cases and more.

Special features

Many types, extra impact strength in cold conditions, UV resistant, countless colour options.
Environmentally friendly and easy to recycle.
Many surfaces: grained, various patterns, smooth metallic look and with an acrylic layer (glossy and hard-wearing).
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	**1.06**
Tensile strength	DIN 53455	N/mm^2	**33-45**
Impact strength at 23 °C	DIN 53453	kJ/m^2	**No break**
Modulus of elasticity	DIN 53457	N/mm^2	**1900-2300**
Elongation at break	DIN 53455	%	**35-55**
Service temperature, continuous	-	°C	**-40/+85**
Thermal expansion	ASTM D 896	mm/m/°C	**0.08**
Flammability	UL 94		**HB**

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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