PVC

Polyvinyl chloride

DESIGNATION	CHEMICAL NAME	TYPE
PVC	Polyvinyl chloride	Thermoplastic

General description

PVC is a very widely used thermoplastic. Supplied clear or coloured.

The material has good chemical resistance but somewhat limited temperature resistance.

Impact-resistant sheets and soft sheets on rolls can be supplied.

Processing

PVC is available as semi-finished products in the form of sheets, rods, profiles, pipes and pipe fittings.

It has good machining properties, and the material can be bonded, welded and thermoformed.

Applications

Vacuum-formed covers.

Advertising signs.

Tanks, vats and pipe systems in the chemical industry.

Flexible strip curtains.

Machined machine elements.

Special features

Wide range of semi-finished products.

Self-extinguishing, but forms chlorine gas in a fire.

RAL 7011 is the most common colour.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	**1.4**
Tensile strength	DIN 53455	N/mm^2	**30-70**
Impact strength at 23 °C	DIN 53453	kJ/m^2	**No break**
Modulus of elasticity	DIN 53457	N/mm^2	**2500-3200**
Elongation at break	DIN 53455	%	**3-30**
Service temperature, continuous	-	°C	**-15/+60**
Thermal expansion	ASTM D 896	mm/m/°C	**0.07**
Flammability	UL 94		**V0**

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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