

Technical plastics: polyvinyl chloride (PVC)

Application

PVC Due to its mechanical strength and chemical resistance it is universally applicable, for example in tank and apparatus engineering. Use in electroplating | electronics | swimming pool technology | waste water and exhaust air systems | Industrial swing doors

Properties

PVC impact resistant polyvinyl chloride without plasticizer and PVC-HI | high impact modified Polyvinyl chloride | We offer PVC-C (post-chlorinated) and PVC-P (soft).

PVC-U high stiffness and strength | flame resistant | good electrical insulation properties | continuous operating temperature -15 °C to +60 °C | high chemical resistance

Storage

PVC should be stored under dry conditions at a temperature of at least +10 °C. Temperature fluctuations can cause problems during processing.

Processing

PVC can be turned and milled. The quality of the surfaces depends on the cutting tools and the cutting speed. We recommend a low feed rate.

Chipless machining

PVC up to 2 mm can also be cut or punched using guillotine shears.

Welding and forming

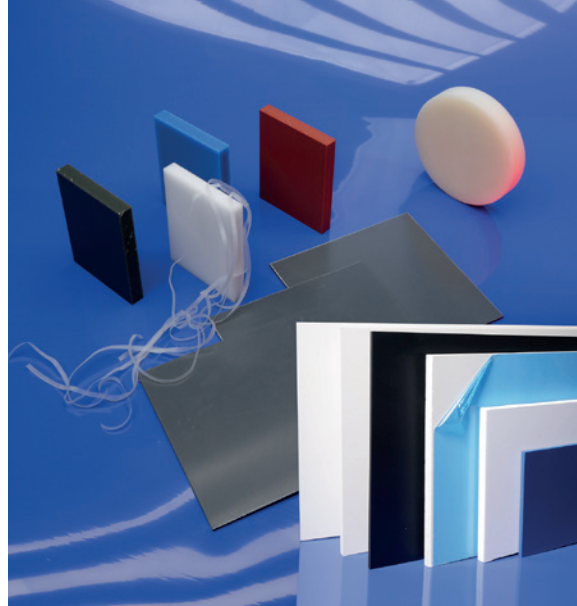
It is no problem to weld or thermally form PVC. However, the welded joints should not be subjected to extreme loads, such as bending.

Bonding

Using the right adhesive, PVC can be inseparably bonded.

Product range

We offer the above mentioned plastics as semi-finished products in various dimensions and thicknesses as sheets | solid rods



Properties	Values
Density (g/cm ³)	1,40
Hardness (Shore Rockwell)	65-95
Water absorption %	0.20
Melting temperature (°C)	
Temperature range (°C)	approx. -15 ~ +60
Breaking stress (MPa)	
Tensile strength (MPa)	55
Elongation (%)	
Elongation at break (%)	
Impact strength (kJ/m ²)	without break
Impact toughness (kJ/m ²)	6
Ball-impression hardness (N/mm ²)	120
Plunger strength (kV/mm)	20-40
Volume resistivity (Ohm.cm)	
Surface resistance (Ohm)	10 ¹³
Dielectric constant (at 100 Hz)	3.3



Note: The technical parameters are a planning aid only. In particular, they do not represent guaranteed properties. The information in the data sheet is based on individual measurements and our current knowledge and experience. We reserve the right to make production-related changes. Please note that the individual application conditions have an influence on the properties of each individual product. For this reason the customer is obliged to subject the materials to a suitability test. The use of our materials takes place exclusively within the area of responsibility of the user.