



DELTA PLASTICS

PVC Polyvinyl Chloride

PROPERTIES

PVC's major benefit is its compatibility with many different kinds of additives, making it a highly versatile polymer. PVC can be plasticised to make it flexible for use in flooring and medical products. Rigid PVC, also known as PVC-U (The U stands for "unplasticised") is used extensively in building applications such as window frames and cladding.

Its compatibility with additives allows for the possible addition of flame retardants although PVC is intrinsically fire retardant because of the presence of chlorine in the polymer matrix.

PVC has excellent electrical insulation properties, making it ideal for cabling applications. Its good impact strength and weatherproof attributes make it ideal for construction products.

PVC can be clear or coloured, rigid or flexible, formulation of the compound is key to PVC's "added value".

PHYSICAL PROPERTIES

Tensile Strength 2.60 N/mm²
Notched Impact Strength 2.0 - 45 Kj/m²
Thermal Coefficient of expansion 80 x 10⁻⁶
Max Cont Use Temp 60 oC
Density 1.38 g/cm³

RESISTANCE TO CHEMICALS

Dilute Acid ****
Dilute Alkalis ****
Oils and Greases *** variable
Aliphatic Hydrocarbons ****
Aromatic Hydrocarbons *
Halogenated Hydrocarbons ** variable
Alcohols *** variable

KEY * poor ** moderate *** good **** very good

APPLICATIONS

Window frames, drainage pipe, water service pipe, medical devices, blood storage bags, cable and wire insulation, resilient flooring, roofing membranes, stationary, automotive interiors and seat coverings, fashion and footwear, packaging, cling film, credit cards, synthetic leather and other coated fabrics, the list goes on...

CONTACT

DELTA PLASTICS LTD
UNIT 2, BILSTON INDUSTRIAL ESTATE,
OXFORD STREET, BILSTON, WEST MIDLANDS, WV14 7EG
TELEPHONE: +44 (0)1902 409627 FAX: +44 (0)1902 409673
EMAIL: sales@deltaplastics.co.uk