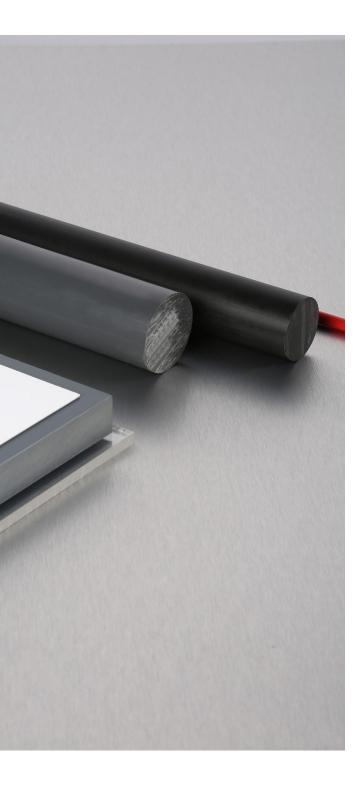
U-PVC Sheet Extruded White (PE Protection 1-side)





Product information

Product full identity: Unplasticised Polyvinyl Chloride

U-PVC is rated self-extinguishing, has excellent chemical resistance with high mechanical and tensile strength, together with a high degree of stability. U-PVC is easily weldable but has a limited operating temperature range of 0°C to +60°C.

Properties

- » Machines well to a polished finish
- » Solvent Cemented & Welded
- » Relatively less expensive than other plastics
- » Strong and stiff
- » Flame retardant grades available
- » Chemical resistant
- » Self extinguishing
- » UV stabalised grades available
- » Drinking water approved
- » Food compliant grades available

Applications

- » Corrosive fluid handling
- » Valves
- » Tanks
- » Water applications
- » Air conditioning & ventilation systems

This document contains

- » Technical Datasheet (Page 2)
- » Chemical Datasheet (Page 3)
- » Safety Datasheet (Pages 4-5)

For any furthur information regarding food, fire and water certificates then please contact the sales team on 01604 700 880

Technical Properties

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm³	1.45
2. Water absorption	ISO 62	%	0.2
Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	-	°C	60
Lower temp limit	-	°C	0
Mechanical Properties	Test	Unit	Result
1. Tensile strength at yield	ISO 527	MPa	>45
2. Elongation at yield	ISO 527	%	-
3. Tensile strength at break	ISO 527	MPa	-
4. Elongation at break	ISO 527	%	>25
5. Impact strength	ISO 179	kJ/m²	no break
6. Notch impact strength	ISO 179	kJ/m²	-
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	-
8. Shore-D	DIN 53505	-	80
9. Flexural strength	ISO 178	MPa	-
10. Modulus of elasticity	ISO 527	MPa	2500
Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point VST/B/50	ISO 306	°C	79
2. Heat deflection temperature HDT/B	ISO 75	°C	-
HDT/A	-	°C	-
3. Coefficient of linear thermal expansion	DIN 53752	k ^{-1*} 10 ⁻⁴	0.7
4. Thermal conductivity at 20 °C	DIN 52612	W/(m*K)	0.2
Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	VDE 0303	Ωxm	-
2. Surface resistivity	-	Ω	1013
3. Dielectric constant at 1MHz	-	-	-
4. Dielectric loss factor at 1 MHz	DIN 53483	-	-
5. Dielectric strength	VDE 0303	kV/mm	21
6. Tracking resistance	IEC 60112	_	
		11	- Describt
Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	EU	-	+
3. Flammability	UL 94	-	V-0

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.

YesLimitedNo data+0-

Chemical Properties

Agent	Conc %	Working	Temp	Agent	Conc %	Working	Temp
		20°C	60°C	Hydrofloric acid	40	+	О
Acetic Acid	100	+	-	Hydrogen peroxide	10	+	+
Acetone	100	-	-	Hydrogen Sulphide		+	+
Ammonia	Conc.	+	0	Isopropyl Alcohol	100	+	+
Ammonium chloride		+	+	Mercurochrome		0	-
Amyl Alcohol		+	0	Methyl alcohol	100	+	+/o
Benzene		-	-	Methyl ethyl ketone	100	-	-
Bleaching Solution	12,5 CI	+	-	Methylene chloride	100	-	-
Boric Acid	100	+	0	Nitric acid	50	+	+
Brake Fluid		+	+	Nitrobenzine		-	+
Butyl Acetate		-	-	Oxalic Acid		+	+
Calcium Chloride		+	+	Ozone, gas	ca. 0,5 ppm	+	+
Carbon disulphide	100	-	-	Paraffin Oil	100	+	О
Carbon Tetrachloride		-	-	Perchlorethylene		-	-
Chlorine, gas	100	0	-	Petroleum	100	+	+
Chlorobenzene	100	-	-	Petroleum, aromatic free	100	+	+
Chloroform		-	-	Phenol, aqu	ca.9	0	-
Citric Acid	10	+	_	Phosphoric Acid	50	+	+
Cresol		-	-	Potassium hydroxide liquor	50	+	+
Cyclohexanone	100	-	-	Propyl alcohol		+	о
Cyclohexene	100	+	о	Pyridine		-	-
Diesel Fuel		+	0	Silicone oil		+	+
Diethylene oxide, THF		-	-	Sodium carbonate. aqu		+	+
Ethyl acetate	100	-	-	Sodium chloride, aqu		+	+
Ethyl alcohol	96	+	0	Sodium Hydroxide liquor	15	0	ο
Ethylene Chloride	100	-	-	Sodium Hydroxide liquor	60	0	о
Formic Acid	10	+	0	Sodium hydrogen sulphite		+	+
Frost protection agent	Petrol	+	+	Sodium nitrate, aqu		+	+
Fuel, aromatic free		+	+	Sodium thiosulfate		+	+
Glycerine	100	+	+	Sulphuric Acid	96	+	+/o
Glycol	100	+	+	Tetrahydrofurance	100	-	-
Heating oil		+	+	Toluene	100	-	-
Heptane	100	+	+	Trichlorethylene	100	-	-
Hydrochloric acid	conc.	+	+	Xylene		-	-

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Key:		
Yes	Limited	No data
+	О	-





Safety Properties

Substance / preparation and company detail

Polyvinylchloride ABG Plastics 10 Sketty Close, Brackmills, Northampton, NN4 7PL 01604 700 880

Composition / indications to components

Chemical characteristics: polymer of vinyl chloride CAS-number: not necessary

Possible dangers

Unknown

First-aid measures

General comment: medical aid is not necessary First-aid measures: none Routes of exposure: none Symptoms / effects: none

First-fighting measures

In case of fire please use gas mask and breathing equipment in depending of circulating air. Fire residues must be disposed of according to the local instructions. Suitable fire-fighting appliance: water fog, foam, fire fighting powder, carbon dioxide

Hazard warning notice: not applicable

Measures in case of unintended release

Person-related measures: none Environmental protection measures: not applicable Cleaning equipment: not applicable Unsuitable cleaning products: not applicable

Handing and storage

Handling: no special regulations must be observed Storage: unlimited good storage property

Limitation of exposition

Special design of techn. processing facilities: not required Tolerance levels: none Exposure measurement procedures: none Respiratory protection: not required Eye protection: not required Body protection: not required

Physical and chemical characteristics

Phenotype

Phenotype / form: semi-finished product, solid state Colour: dark grey Smell: not applicable **Change of state** Flash point: not applicable **Other remarks** Density: 1.44 g/cm3

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Safety Properties

Stability and reactivity

Thermal decomposition: above appr. 200°C Dangerous decomposition products: Besides hydrochloric acid also carbon dioxide and water will develop during the burning process. In case of incomplete burning also carbon monoxide and traces of phosgene may arise. Use of stabilisers: none Exothermic reactions: none Notices regarding state of aggregation: none Conditions to be avoided: none Substances/media to be avoided: none

Toxic information

During several years of usage no effects being harmful for the health were observed.

Ecological information

No biodegradation, no solubility in water, no effects being harmful to the environment must be expected. Mobility: not applicable Accumulation: not applicable Eco-toxicity: not applicable

Waste-disposal information

Can be recycled or can be disposed of together with household rubbish (acc. To local regulations). Waste key for the unused product: EAK-Code 120 105 Waste name: waste of polyvinylchloride

Transport information

No dangerous product in respect to / according to transport regulations Notice/symbol transport containers: none Special marking for containers: none

Regulations

Marking according to GefStoffV/EG: no obligation for marking Water danger class: class 0 (self classification) Domestic requirements to be observed: none

Further information

The information is based on our current knowledge. They are meant to describe our products in respect to safety requirements. They do not represent any guarantee of the described product in the sense of the legal guarantee regulations.