

## PVC Foam - White

U-PVC Foam is rated self extinguishing, very light weight (SG 0.6 - 0.7), durable and versatile. U-PVC Foam due to its surface is ideal for all print media; this product also boasts low sound and thermal conductivity.

### Key Features:

- Light Weight
- Low Water Absorption
- Indoor and Outdoor Use
- Excellent Sound and Heat Isolation Properties
- Self-extinguishing
- Smooth Surface

### Applications:

- Exhibition Boards and Signs
- Interior Decorations and Wall Cladding
- Displays
- Letter Cut
- Screen Printing
- Digital Printing

Technical Properties			
Physical Properties	Test Method	Unit	Result
1. Specific gravity	ISO 1183	g/cm <sup>3</sup>	0.6 - 0.7
2. Water absorption	ISO 62	%	<1
3. Maximum service temp. Upper temp limit	-	°C	60
Lower temp limit	-	°C	0
Mechanical Properties	Test Method	Unit	Result
1. Tensile strength at yield	ISO 527	MPa	>15
2. Elongation at yield	ISO 527	%	-
3. Tensile strength at break	ISO 527	MPa	-
4. Elongation at break	ISO 527	%	14
5. Impact strength	ISO 179	kJ/m <sup>2</sup>	-
6. Notch impact strength	ISO 179	kJ/m <sup>2</sup>	-
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	-
8. Shore-D	DIN 53505	-	45
9. Flexural strength	ISO 178	MPa	-
10. Modulus of elasticity	ISO 527	MPa	>900
Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point VST/B/50	ISO 306	°C	74
2. Heat deflection temperature HDT/B	ISO 75	°C	-
HDT/A	-	°C	-
3. Coefficient of linear thermal expansion	DIN 53752	K <sup>-1</sup> 10 <sup>-4</sup>	0.75
4. Thermal conductivity	DIN 52612	W/(m.K)	0.01
Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	VDE 0303	Ω x m	-
2. Surface resistivity	-	Ω	>10 <sup>14</sup>
3. Dielectric constant at 1MHz	-	-	-
4. Dielectric loss factor at 1MHz	DIN 53483	-	-
5. Dielectric strength	MSZ EN 60243-1	kV/mm	15
6. Tracking resistance	IEC 60112	-	-
Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	FDA	-	-
3. Flammability	UL 94	-	V-0

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

## Chemical Properties

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

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