Proclad Premium Grade Colours

Chemical Properties

Agent	Concentration	U-PVC	
	%	20	60
2 - Hydroxypropionic acid	90	•°c	•°c
Acetic acid	100	•	-
Acetone	100	-	-
Ammonia	conc.	•	◦
Ammonium chloride		•	•
Amyl alcohol		•	◦
Bezene		-	-
Bleaching solution	12.5 Cl	•	-
Boric acid	100	•	◦
Brake fluid		•	•
Butyl acetate		-	-
Calcium chloride		•	•
Carbon disulphide	100	-	-
Carbon tetrachloride		-	-
Chlorine, gas	100	◦	-
Chlorobenzene	100	-	-
Chloroform		-	-
Cresol		-	-
Cyclohexanone	100	-	-
Cyclohexene	100	•	◦
Diesel fuel		•	
Ethyl acetate	100	-	-
Ethyl alcohol	96	•	◦
Ethylene chloride	100	-	-
Formaldehyde, aqu	40	•	•
Formic acid	10	•	◦
Glycerine	100	•	•
Glycol	100	•	•
Heating oil		•	•
Heptane	100	•	•
Hydrochloric acid	conc.	•	•
Hydrofluoric acid	40	•	◦
Hydrogen peroxide	10	•	•
Hydrogen sulphide		•	•
Isopropyl alcohol	100	•	
Methyl alcohol	100	•	•/◦
Methylene chloride	100	-	-
Mineral oils, aromatic free		•	•
Nitric acid	50	•	•
Nitrobenzine		-	-
Oxalic acid		•	•
Ozone, gas	ca. 0.5 ppm	•	•
Paraffin oil	100	•	◦
Perchlorethylene		-	-
Petroleum	100	•	•
Petroleum, aromatic free	100	•	•
Phenol, aqu	ca.9	◦	-
Phosphoric acid	50	•	•
Premium fuel		-	-
Propyl alcohol		•	◦
Pyidine		-	-
Silicone oil		•	•
Sodium carbonate, aqu		•	•
Sodium chloride, aqu		•	•
Sodium hyrogen sulphite		•	•
Sodium nitrate, aqu		•	•
Sodium thiosulfate		•	•
Sulphuric acid	96	•	•/◦
Tetrahydrofuran	100	-	-
Trichlorethylene	100	-	-
Vinegar, standard	5 - 10	•	•

Resistant • Partly resistant ◦ Non resistant -

Technical Properties

Physical properties	Test method	Unit	U-PVC
Specific gravity	ISO 1183	g / cm³	1.45
Water absorption	ISO 62	%	<0.2
Maximum service - Higher temp limit	-	°C	60
Maximum service - Lower temp limit	-	°C	0

Mechanical properties	Test method	Unit	
Tensile strength at yield	ISO 527	MPa	55
Elongation at yield	ISO 527	%	3
Tensile strength at break	ISO 527	Mpa	>45
Elongation at break	ISO 527	%	>25
Impact strength	ISO 179	kJ/m²	no break
Notch impact strength	ISO 179	kJ/m²	3
Ball indentation / Rockwell hardness	ISO 2039-1	MPa	120
Shore - D	DIN 53505	-	80
Flexural strength	ISO 178	MPa	90
Modulus of elasticity	ISO 527	MPa	>3500

Thermal properties	Test method	Unit	
Vicat - softening point VST/B/50	ISO 306	°C	80
Heat deflection temperature HDT/B	ISO 75	°C	-
Heat deflection temperature HDT/A	-	°C	72
Coefficient / linear thermal expansion	DIN 53752	$K^{-1}*10^{-}$	0.7
Thermal conductivity at 20 °C	DIN 52612	w/(m*k)	0.2

Electrical properties	Test method	Unit	
Volume resistivity	VDE 0303	Ω x m	-
Surface resistivity	-	Ω	10^{13}
Dielectric constant at 1MHz	-	-	-
Dielectric loss factor at 1MHz	DIN 53483	-	-
Dielectric strength	VDE 0303	kV/mm	31
Tracking resistance	IEC 60112	-	-

Additional data	Test method	Unit	
Bondability	-	-	•
Food compliance	FDA	-	•
Flammability	UL 94	-	V-0