

PHYSICAL PROPERTIES

Physical Properties	Test Method	Unit	Value
Density (Specific Gravity)	ASTM D792	g/cm ³	0.45-0.70
Shore D Hardness	ASTM D2240	D	35-80
Tensile Strength	ASTM D638	kg/cm ²	120
Impact Strength(+20 °C)	ASTM D256	kg.cm/cm ²	1.5
Flexural Strength	ASTM D790	kg/cm ²	150-260
Nail Hold	ASTM D1761	lbf/in	60
Screw Holding Strength	ASTM D1761	lbf/in	360
Water Absorption	ASTM D570	%	1≤
Coefficient of linear thermal expansion (from -30 °C to +30 °C)	ASTM D696	mm/m °C	0.046
Vicat softening temperature	ASTM D1525	°C	72
Heating deflection temperature	ASTM D648	°C	60
Fire behavior	GB	/	B2(self-extinguish time is less than three seconds)

CHEMICAL RESISTANT

NO.	Name of chemical	20°C	40°C	60°C
1	Concentrated Hydrochloric Acid	O	X	X
2	Concentrated Sulfuric Acid	O	X	X
3	Sulfuric Acid 30%	†	†	O
4	Concentrated Nitric Acid	O	X	X
5	Nitric Acid 40%	†	†	O
6	Formic Acid	O	X	X
7	Lactic Acid	†	O	X
8	Caustic Soda	†	†	†
9	Ammonia Water	†	†	O
10	Sodium Disulfide	O	X	X
11	Acetone	X	X	X
12	Ethyl Alcohol	†	†	O
13	Butyl Alcohol	†	†	O
14	Toluene	X	X	X
15	Formalin	†	†	O
16	Carbon Disulfide	X	X	X
17	Carbon Tetrachloride	O	X	X
18	Acetic Acid	O	X	X
19	Butyl Acetate	X	X	X
20	Gasoline	†	†	O
21	Glycerine	†	†	†
22	Solution of spraying paints	X	X	X
23	Chlorine (gas dried) 100%	X	X	X
24	Beaching Solution	†	O	X
25	Sea water - salt water	†	†	†
26	Starch (carbohydrate) solution	†	†	†
27	Brewing water	†	†	§

‡ † Denotes safety applicable ‡ O Denotes applicable ‡ X Denotes inapplicable