

1. PRODUCT:

General Acrylic Panel Sheets

2. MATERIAL:

General Acrylic Panel sheets are manufactured completely with 100% Polymethyl Methacrylate material.

3. CHEMICAL CHARACTERISTICS:

RESISTANT PROPERTIES TO CHEMICAL AGENTS

• Sulfuric Acid	60 °C	Stability to 60%
• Hydrochloric Acid	60 °C	Stability to 30%
• Nitric Acid	60 °C	Stability to 20%
• Caustic Soda	60 °C	Stability to 50%
• Aqueous Ammonia	60 °C	Stability to 18%
• Acetic Acid		Dissolvable change to dark color
• Chlorine Water		easily colorate
• Iodine Tincture		

4. RESISTANT PROPERTIES:

RESISTANT PROPERTIES TO THE SOLVENTS

Corrosion resistant at room temperature:

ne, octane, formaldehyde 40%,methanol, ethanol, glycol, petroleum(contained a little aromatic groups)

Expansion or track at room temperature:

Butanol,Isopropano, Carbon dissolution may occur chloroform, benzene, toluene,xylene,acetylene dichloride, acetone, ethyl acetate.

5. PHYSICAL CHARACTERISTICS

• Specific Gravity	1.19
• Hardness	M-100
• Absorbptivity of Water (24hr)	0.3%
• Tension Coefficient of rupture	700kg/cm ²
• Tension Coefficient of elasticity	28,000 kg/cms
• Bending Coefficient of rupture	1.5kg/cm ²
• Bending Coefficient of elasticity	28,000 kg/cms
• Insulating Strength	20v/mm

6. HEAT

• Deflection Temperature under load, 264psi	95°C ASTM D648
• Forming Ranges	Aprox 140-180° C
• Ultimate temperature of continuous operation	80°C
• Internal Shrinkage	2.0-3.0%
• Softening Point	112°C (223°F) ASTM D1525
• Coefficient of Linear Thermal expansion (18°C °C-38Ave)	0.000054cm/cm/C ASTM D696
• Coefficient of Thermal Conductivity	0.000064in/in/C
• Flammability Burning Rate (0.125" thickness)	25mm/min ASTM D623
• Self-ignition Temperature	443 °C ASTM D1929
• Specific Heat @77°F	0.35 (BTU/ib°F
• Smoke Density Rating	(1470j/kgk)5-10% ASTM D2843