

NovaKyn PVDF Sheets made from a pure thermoplastic fluoropolymer. PVDF maintains its useful mechanical and chemical resistance properties at temperatures up to 150°C (300°F). An additional advantage is that PVDF can be welded into tanks for acid and corrosive chemical processing in elevated temperature environments. PVDF is rigid and resistant to creep under mechanical stress and load. PVDF is stable to sunlight, and other sources of ultraviolet radiation. It is generally used in applications requiring the highest purity, strength, and resistance to solvents, acids, bases and heat and low smoke generation during a fire event.

**Key Features:-**

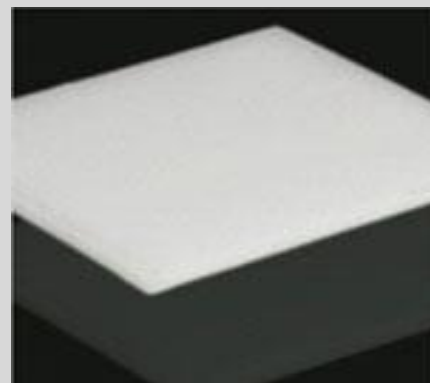
- Mechanical strength & toughness
- High thermal stability
- High dielectric strength
- Exceptional outdoor weather resistance
- Total inertness to UV radiation
- Low permeability to most gases & liquids
- Low flame & smoke characteristics
- High abrasion resistance
- Very low creep; High purity
- Resistance to most chemicals & solvents (PH1 to PH14)
- Resistance to nuclear radiation
- Fungi resistant

**Standard Sizing:-**

Thickness (in mm)	Width x Length (in m)	Packing
2	1.5 x 2.5 1.5 x 3	1 no. / roll
3		
4		
5		
6		
10		
12		

**Colours:** Natural

Embossing / designs also available.



**Typical Applications:-**

- Chemical tanks and vessels
- Glove Box for use in Nuclear Industry
- Control cabinets and panels
- Equipment for corrosive environments
- Fume Scrubbers & FRP Applications
- Vessel Lining
- Valve and Pump Housing
- Fire retardant applications
- Paper industry
- Bleach Washer Lines
- Deionized Water Handling
- Bromine Handling
- Specialty Chemicals
- Insecticides Plants
- Chloro Alkali Plant

## Typical Properties

Properties	Test Method	Unit	Value
Specific gravity ( $\rho$ )	ISO 1183	g/cm <sup>3</sup>	1.78
Water saturation	ISO 15512	%	0.03
Max. permissible service temperature		°C	140
Lower permissible service temperature		°C	-30
Tensile strength at yield	ISO 527	Mpa	52
Tensile strength at break	ISO 527	Mpa	34-55
Elongation at yield	ISO 527	%	5-10
Elongation at break	ISO 527	%	≥50
Notch impact strength	ISO 179	KJ/m <sup>2</sup>	5
Modulus of elasticity	ISO 899	Mpa	2200
Vicat Softening Temperature	ISO 306	°C	139
Heat deflection temperature	at 0.46 MPa (66 psi)	°C	125-140

N.B.: Technical data refers to average values. The information provided above is based on the values measured in our laboratory as well as independent laboratories. The quoted values are based on specific resin properties and are subject to change without prior notice.

For further details on the product, kindly contact us at :

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