



# PROCLAD

## Technical Data Sheet



**ProClad** is a new type of non-metallic cladding system. This polyester based composite can be used over any type of insulation. Because of its inherent strength, **ProClad** is ideal in walk down areas of plants and is suitable for wash down areas. **ProClad** is easily installed with the use of the exclusive **ProClad** adhesive systems. This still gives great sealed overlaps that are extremely strong and water tight. This allows for greater assurance against corrosion-under-insulation (CUI).

Our unique molding techniques allow for very large shapes up to 30" diameter in two pieces. All of our fabrication techniques follow ASTM C-585 tolerance standards to assure proper fit over any insulation type.

Please call us or visit our website for any needs you may have.

### Features

- Comes in 2 ft wide or 3.2 ft wide
- Thicknesses from 1-2.5 mm
- Long Radius and Short Radius Elbows
- Standard colors are gray or white
- Custom color available on large quantities
- Easily installed indoor or outdoor
- Best in Class Fire Performance
- Meets ASTM E-84 25/50 Smoke and Flame requirement
- UV Protective Coating as standard gives excellent resistance to UV radiation and prolongs the life cycle.



### Benefits

- Reduces CUI risk
- Easily handled
- Will not dimple like metal
- More resistant to foot traffic than metal
- Excellent chemical resistance compared to traditional jacketing systems.
- Ideal for hot and cold systems
- Can be used with all types of insulation



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**Product Description:**  
UV-Curable Glass fiber reinforced Polyester Cladding

**Availability:**  
In Stock in rolls of 100 SF per roll.

<b>Filler/Reinforcement</b>	• Glass fiber and mineral filler		
<b>Features</b>	• Fire retardant	• Halogen Free	• No SVHC's
<b>Processing Method</b>	• Pre-formed, UV Cure Molding; data presented are cut from molded plaques		
<b>Resin ID (ISO 1043)</b>	• UP (GF+MD) 80 Unsaturated Polyester Composite		
<b>PHYSICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test</b>
<b>Density (molded)</b>	2.02	g/cm3	ISO 1183/A
<b>Water Vapor Permeability</b>	< 15	ng/(Pa-s-m2)	ASTM E96
<b>Barcol Hardness</b>	61	Barcol	
<b>FLAME</b>	<b>Typical</b>	<b>Unit</b>	<b>Test</b>
<b>Flame Spread, max</b>	25 (5 Actual)	Index	ASTM E84-15b
<b>Smoke Developed, max</b>	50 (40 Actual)	Index	ASTM E84-15b
<b>MECHANICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test</b>
<b>Tensile Modulus</b>	2.5E+6 (17,200)	psi(MPa)	ASTM D638
<b>Tensile Stress (Break)</b>	8000 (55)	psi(MPa)	ASTM D638
<b>Tensile Elongation</b>	1.4	%	ASTM D638
<b>Flexural Modulus</b>	1.4E+6 (9,380)	psi (MPa)	ASTM D-790
<b>Flexural Stress (Break)</b>	18,000 (125)	psi (MPa)	ASTM D-790
<b>Compressive Strength</b>	16,000 (110)	psi (MPa)	ASTM D-3410
<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test</b>
<b>Izod Notched Impact Strength 73°F (23°C)</b>	13(700)	ft-lb/in (J/m)	ASTM D256
<b>Unnotched Izod Impact Strength 73°F (23°C)</b>	23(1230)	ft-lb/in (J/m)	ASTM D4812
<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test</b>
<b>Heat Deflection 264 psi (1.8 MPa)</b>	>392 (>200)	°F (°C)	ISO 75-2/A

Note: ProClad will not decompose and will remain stable in ambient conditions from – 40°C — +70°C, Relative Humidity (RH) ≤100% and has excellent resistance to Ozone.



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