Excellence.
Passion.
Perseverance.

EPP®
EPP Composites Pvt. Ltd.
Since 1986

indiasheet™
Layer of Toughness, Skin of Resilience

FRP CORRUGATED ROOF SHEET

PROTECT YOUR SPACE WITH FRP ROOF SHEETS



Feature & Benefit

- Corrosion Resistance
- High Strength
- Light Weight
- Highly Durable
- Leak Proof
- Fire Resistance
- Eco Friendly
- Wide Applications
- Weather Resistance
- Long Life-cycle
- Less Structural Cost
- UV Resistance

Innovative **Engineering,** Renovating **Life**

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FRP/GRP ROOF SHEETS

– CRAFTED WITH PRECISION TECHNOLOGY

EPP Roofing is a superior alternative to conventional low-quality FRP/GRP sheets and costly polycarbonate sheets. It offers exceptional durability, making it a long-term, value-for-money solution.

EPP Roofing & Side Cladding System

- Available in a variety of shapes, profiles, and colors
- Translucent, non-glare, crinkle-diffused sheets
- Ideal for industrial buildings and warehouses
- Fire retardant for enhanced safety
- Allows natural light transmission – reduces electricity costs



COMPARISON BETWEEN

-MACHINE MADE FRP ROOF SHEETS & POLYCARBONATE SHEETS

Feature	Machine-Made FRP/GRP Sheets VS	Polycarbonate Sheets
Corrosion Resistance	Excellent – ideal for industrial & coastal areas	Moderate – can degrade in chemical environments
Light Transmission	Diffused natural light, glare-free	High light transmission, may cause glare
Highly Durable	Highly durable, excellent impact and weather resistance	Durable, but prone to scratches & UV degradation
Fire Resistance	Built-in fire Retardancy – slows flame spread & adds safety	Limited resistance – may melt or drip under high heat
Lifespan	15–25+ years depending on use and environment	Typically 10–15 years with proper care
Cost Efficiency	Cost-effective, long-term value	Generally more expensive
UV Resistance	Excellent with UV-stabilized resin	Requires UV coating, may yellow over time
Wide Applications	Industrial roofing, cladding, warehouses, chemical plants	Greenhouses, skylights, commercial glazing

PHYSICAL PROPERTIES OF

-FRP MATERIAL

Property	Value / Requirement	Standard
Barcol Hardness	Minimum 40	IS: 12866
Tensile Strength	Minimum 7,000 PSI	ASTM
Flexural Strength	Minimum 14,000 PSI	ASTM
Density	1.4 to 1.6 g/cm^3	IS: 12866
Water Absorption	Maximum 0.25%	IS: 12866
Bolt Shear Strength	Minimum 375 N	IS: 12866
Load Deflection	Minimum 1100 N	IS: 12866
Impact Strength	Minimum 220 J/m	ASTM D256

PRODUCT DESCRIPTION

– MACHINE MADE FRP/GRP ROOFING SHEET

Attribute	Details
Product	Machine Made FRP/GRP Sheet
Brand	EPP Roofing Sheet
Resin Options	RL UV / General Purpose / Isophthalic / Vinylester / Epoxy / Phenolic
Model	Customizable – Any Type
Color	As per requirement
Gel Coat	Top side coated with selected resin (As per application)
Width	1450 mm (Stretch Width)
Length	No restrictions

Attribute	Details
Thickness	2 mm – 6 mm
Unit Price	Based on specification and thickness
Unit Weight	Varies by type
MOC Tolerance	±10%
Monthly Production Capacity	180,000 Sq. mtr

Comprehensive Technical Overview of EPP's Machine-Made FRP/GRP Roofing Sheets—High-Performance, Durable, and Customizable.

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COMPARISON:

MACHINE MADE VS. HAND LAY-UP FRP/GRP ROOF SHEETS

Parameter	Machine Made FRP/GRP Sheet	Hand Lay-Up FRP/GRP Sheet
Thickness	Thickness Variation	Uniform Thickness
Profile	No Uniform Profile	Uniform Profile
Guard Film	No film	Both sides with cling film
Tensile Strength	7,000 PSI	Minimum 7,000 PSI
Flexural Strength	Minimum 14,000 PSI	Minimum 14,000 PSI
Glass Content (%)	25–30%	Minimum 30%
Barcol Hardness	Up to 40	40–45
Availability	350 R. meters	50,000 Sq. meters / month

CHEMICAL RESISTANCE FRP/GRP (FIBREGLASS REINFORCED PLASTIC/ POLYMER) SHEETS MANUFACTURED BY CLM (CONTINUE LAMINATING MACHINE) AUTOMATIC PLANT

An ideal alternative to Metal, PPGI, Cement, and Galvanized Roofing & Cladding Sheets for industries demanding superior chemical resistance.

WHY CHEMICAL RESISTANCE FRP/GRP SHEET REQUIRED ?

In industrial environments, significant losses occur due to:

- Corrosive chemical processes
- Coastal area exposure
- Chemical spillages on roofs
- Corrosive vapors
- Harsh weather conditions like snowfall or heavy rainfall

RESIN OPTIONS FOR CHEMICAL RESISTANCE

To achieve optimum performance, high-grade resins are used:

- Isophthalic Resin
- Vinyl Ester Resin
- RL UV Resin
- Top-side Gel Coated with Vinyl Ester / Isophthalic / RL UV combinations

ADVANTAGES OF

EPP CHEMICAL RESISTANT FRP/GRP SHEETS

Long Service Life: Over 20 years of performance with a 15-year warranty on gel-coated variants.

Superior Durability: Excellent resistance to UV, moisture, chemicals (oils, acids, fumes), temperature changes, and water pressure.

Fire Retardant & Corrosion Resistant: No rusting, rotting, warping, or leaks.

High Impact Resistance: No chipping, shattering, or breakage.

Low Maintenance: Leakproof, easy to install, and maintenance-free.

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EPP "LIFE GUARD"

– MACHINE-MADE GEL COATED FRP/GRP SHEETS

India's First Continuous Laminating Machine (CLM) Plant with Top Side Gelcoat Technology

EPP proudly introduces "LIFE GUARD" Gel Coated FRP/GRP Roofing & Cladding Panels, available in translucent and opaque variants – setting new standards in durability, performance, and aesthetics.

WHAT IS GEL COAT?

Gel Coat is a premium top-layer coating applied over FRP/GRP sheets. It features:

- High UV resistance
- Abrasion & erosion protection
- Enhanced pigmentation for opaque sheets
- Clear gelcoat for translucent skylight panels

WHY IS GEL COAT IMPORTANT?

- Prevents resin evaporation and surface wear
- Offers extra UV protection
- Acts like sunscreen for your sheet – extending life and maintaining appearance
- Ensures consistent illumination for skylight applications
- Makes the sheet maintenance-free with a long working life

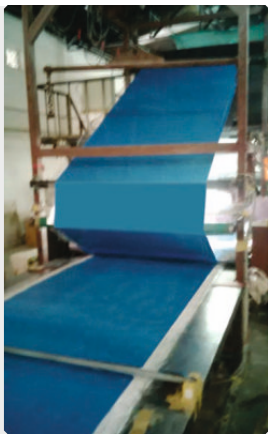
OUR MANUFACTURING EDGE

EPP's state-of-the-art CLM plant can produce over 2.5 lakh Sq. Mtr. annually with high-grade resin combinations, including:

- General Purpose
- Roof Light
- Isophthalic
- Vinyl Ester
- Superior Vinyl Ester
- Bisphenol - Epoxy Vinyl Ester

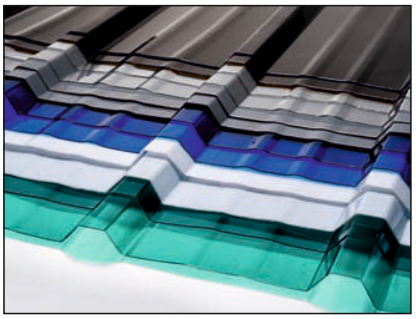
All engineered for maximum UV, abrasion, and weather resistance – keeping us ahead of the competition.

Top Side Gel Coating Process In Machine



OUR MANUFACTURING EDGE

- Petrochemical Plants
- Cooling Tower Cladding
- Hazardous Chemical Industries
- Salt Plants
- Snow-Prone Areas
- Coastal Installations
- Fertilizer Plants
- Effluent Treatment Plants
- Heavy Rainfall Zones
- High-Temperature Environments



GEL COATED SHEET ARE HAVING HIGHER WARRANTY THEN NORMAL SHEET, WARRANTY IS EXTENDED UP TO 20 YEARS AS PER APPLICATION,IN COMPARISON TO NORMAL SHEET OF 7 TO 10 YEARS.

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Catalogue