Weaving Trust & Strength
Cross Laminated Multi-Layer Film

SHIVALINE

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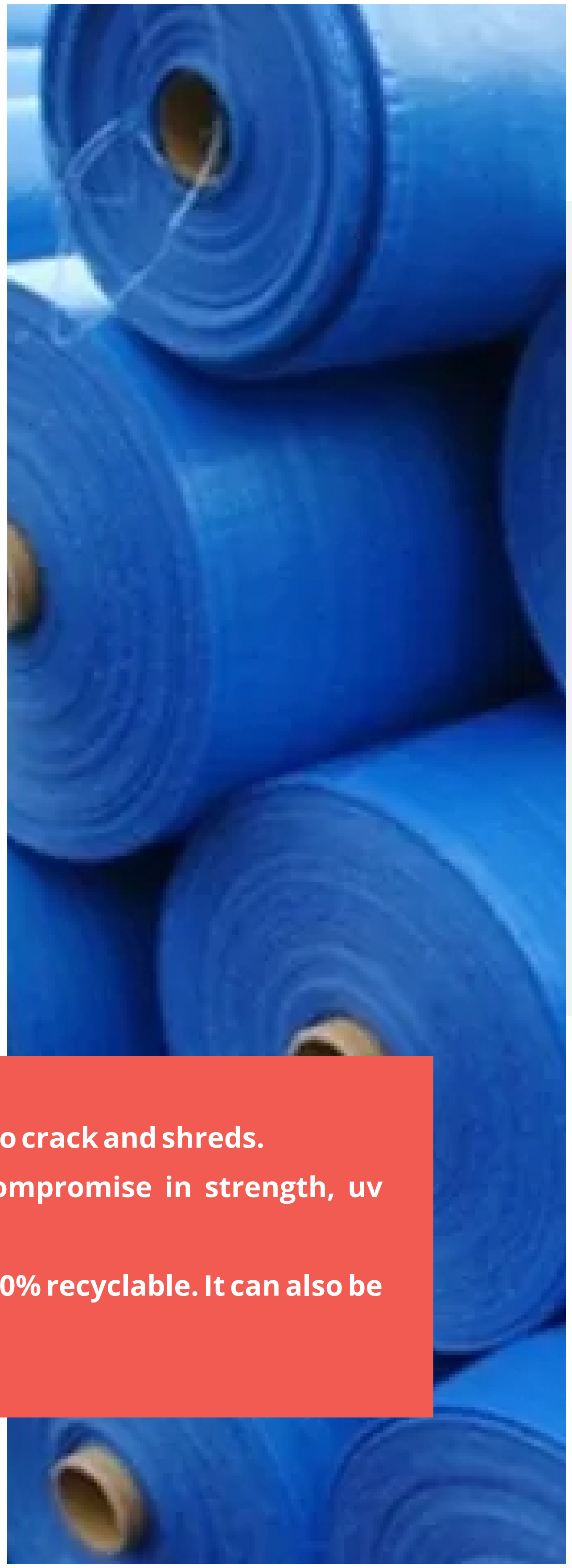
Introduction of
Shivaline

We manufacture and market multilayer cross laminated film under shivaline brand. It is comprised of multiple film that is oriented and bonded by novel technology. It provides strength in machine and transverse both direction.

SHIVALINE®



- **Puncture resistance, no pin holes, no crack and shreds.**
- **Extremely light weight with no compromise in strength, uv protected.**
- **Shivaline is odourless, non-toxic, 100% recyclable. It can also be used for food protection.**

Shivaline V/s Conventional (Traditional) Tarpaulin

SHIVALINE

- Films multi orianted and cross laminated for better strength
- Cross Lamination in MD and TD so no possibility of De- Lamination. Long product Life.
- Excellent weathering resistance due to Cross Lamination in Md and TD both directions. No Complaint of pin holes, cracks, shreds. Long Lasting Product.
- Cross Lamination reduce thickness and reduce weight.
- Excellent Sealing Property of product. Ultrasonic welding provides full strength sealing of product.
- Excellent water and barrier property.
- Good weathering resistance even on direct exposure to sunlight.
- Ideally no eyelets attached so less possibility of wear and tear of corner
- Technological innovation provides precision on Thickness/ GSM or New edge technology has excellent control over strength, tolerance and thickness (GSM).
- SHIVALINE is light weight and easy to handle.
- Post service life, product is 100% recyclable, environmentally sustainable and eco-friendly.

CONVENTIONAL TARPAULIN

- Made from woven sack polyethylene fabric laminated with poly film
- Due to Manufacturing process, product gets de-laminated, Very Fast product Ageing
- Unidirectional Lamination develops pin holes and crack and shreds. Poor weathering resistance.
- Unidirectionally aligned layers makes it heavy.
- Sealing property has poor life and stitching wear off easily.
- Poor water resistance and poor water barrier property
- Exposure to Sun / weather reduce product life develops crack and shreds.
- Eyelet provided on reinforced sides may weak the tarpaulin as it tears off easily.
- GSM/Thickness variation issue.
- Other conventional tarpaulin like PVC Tarpaulin are heavy, not moisture resistant and difficult to handle.
- Post Service waste generated is not eco-friendly.








Strong

SHIVALINE is strong multi-layer cross laminated film manufactured through novel technology. Higher Performance with a lighter micron offers notable in saving material cost.

Protection from Tear / Puncture

New edge Manufacturing process provides SHIVALINE good tensile strength with strong balanced tear resistance in Multi direction. Less chances to puncture on film and it can be easily repaired.

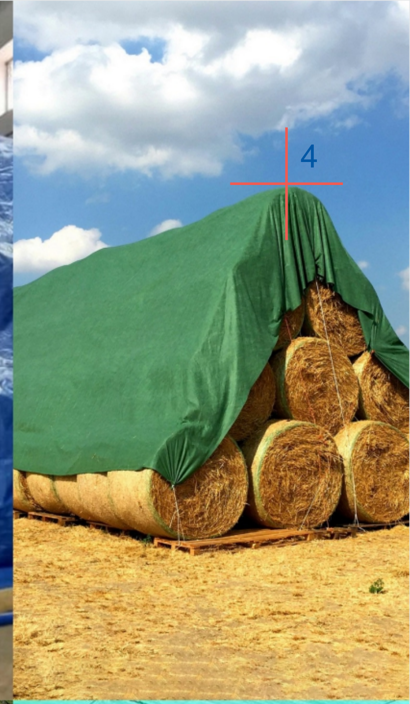
100% Waterproof

SHIVALINE has good water barriers property, moisture resistance and retains 100% strength even when wet. Staple/stich free joints make it 100% waterproof.

Easy to Use

SHIVALINE can be converted by various process such as sealing, welding, laminating, cutting for range of industrial and consumer application. Strong and Tear Resistant ends could be easily formed by cutting, folding, welding and eyelets can make easy to handle. Due to Light weight it can handle easily.





Durable

Excellent technology and exceptional properties makes SHIVALINE a long lasting and durable.

Protection from Weather

SHIVALINE has high resistance to varying weather condition. Even with sustained exposure to sunlight, wind, water, rain or snow product continues to have high resistance against crack, peeling, delamination, shipping etc. Offers good weather resistance.

Chemical Resistance

Good for Chemicals like acid, alkalis, oi, stains tec. Good Barrier property allows usages in various application requiring liguid and gas barrier property.

UV Resistance

SHIVALINE has the ability to absorb UV radiation and dissipate the energy as low-level heat, thus withstanding the pressure to crack or disintegrate under continuous exposure to sunlight.

FEATURES

Fine Details

Make It Difference

Ultrasonic Welding

Conventional Tarpaulin and Films are sealed by Stitching Stapling and other conventional method but SHIVALINE films/sheets are joined by cutting edge process of Ultrasonic welding.

- Faster than conventional process
- Clean and precise joints
- Strong bonding welding
- No leakage from welding

Eyelets

SHIVALINE provides eyelet at the corners and sides to form strong attachment for hold, grip and tying the rope.

- Extremely durable
- Prevent tearing and stretching
- Easy to use
- Longer life

Ultrasonic Welding

Product is available in all standard size, ready to use carpet/ sheet and roll form also available for customization.

GSM/THICKNESS: Multilayer cross laminated film available in all qualities. film available in 70,90,120,150,200,250,300,350 GSM

Sizes: As per customer specification

Colours: Multiple range of colours

Quality and Standards

It is made up of specifically chosen polymers and MFG by Higher quality of workmanship and technology. Avoid can be manufactured by as per IS Standard 14611-2016 (Multilayer Cross Laminated Film)

Technical Data Sheet of Multilayer Cross Laminated Film As per IS Standard.

Characteristics	Requiements		
Total Mass per Unit Area, Min, g/m2	LN (LIGHT DUTY) 60-100 GSN	MN (MEDIUM DUTY) 110-150 GSM	HN (Heavy Duty) 200.250 GSM
Tensile Strength (kg/cm2, Min) Longitudinal Direction Transvers Direction	Kg/cm2 250 200	Kg/cm2 250 200	Kg/cm2 250 200
After ageing at 70 +/- 1°C FOR 168 h Longitudinal Direction Transvers Direction	30 % Decrease from the original		
Elongation Break (%, Min) Longitudinal Direction Transvers Direction	% 400 300	% 400 300	% 400 300
Tear Strength, Min Longitudinal Direction Transvers Direction	g 1200 900	g 2080 1550	g 3000 2750
After ageing at 70 +/- 1°C FOR 168 h Longitudinal Direction Transvers Direction	30 % Decrease from the original		
Dart Impact Strength, g Min	9 250	g 400	g 700
Average tensile strength and elongation break after exposing to UV radiation and weathering changes	40 % of the original strength		