

Lamicoat Prime

extrusion coating & lamination



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Lohia Corp, a pioneer in plastic woven fabric machinery, brings decades of proven engineering, innovation, manufacturing strength and strong service ecosystem around the globe. Reinforcing this legacy, SIPL (formerly Sundarlam Industries), now a subsidiary of Lohia Corp, adding deep expertise in extrusion coating and lamination. This strong synergy translates into cost-effective, high-performance solutions across a wide range of applications, from small bags and block bottom bags to FIBCs, tarpaulins, geotextiles, and wide-width specialty products, delivering quality and reliability you can trust.

OPTIONAL EQUIPMENT#

- Dosing & Mixing Unit
- Turret Unwinder
- Melt Metering Pump
- Preheater for Fabric (Electrically Heated Roll/Hot plate)
- Corona Treater
- Perforation Device
- Sandwich Unit with EPC & Matching Systems
- Auto Poly Edge Trimming with Suction & Recycling#

Designed for uniform coating of LDPE / PP on substrate like Woven fabric of PP/HDPE (Circular and Flat Fabric, FIBC, Tarpaulin, Leno), Carpet, Jute, Cotton Cloth and excellent sandwiching quality of BoPP & Paper with Woven Fabric.



Coating Width

300 to 4150 mm

Melt Output

140 to 750 kg/hr

Our product portfolio supports a wide range of applications, available in mono and co-extrusion configurations. Engineered for uniform and consistent coating of LDPE/PP on various materials, including but not limited to woven substrates like PP/HDPE fabrics, as well as non-woven materials such as carpet backing, jute, cloth paper, PU/PE foam, PP films etc., and offers excellent sandwich lamination with BoPP, including metallized films and paper, on woven/non-woven fabric.

EXTRUDER UNIT: Melts and mixes PP/LDPE uniformly with special homogenization zones, ensures consistent coating with precise temperature control across zones, supports efficient, high-speed production.

DIE (T-DIE) WITH INTERNAL DECKLING: The T-die allows adjustable coating width via internal deckling, enables width changes without stopping the line, reducing downtime. Rheologically optimized design ensures uniform melt flow and edge bead reduction.

LAMINATOR UNIT: Equipped with double-walled, inside honed and both side hard chrome-plated chill roll, enhancing cooling efficiency while minimizing scaling. The temperature resistant pressure nip roll with adjustable nip position and air gap, supported by bigger diameter chill & rubber roll for improved contact & heat transfer, ensure high-quality lamination on varied substrates.

BoPP SANDWICH LAMINATION UNIT: Facilitates high-quality sandwich lamination of BoPP (including metallized films) with woven/non-woven fabrics and paper, equipped with tension control, print-mark registration control, and edge guiding system for precise film handling. Enables premium multi-layer packaging solutions with excellent adhesion and alignment control.

CENTRAL CONTROL SYSTEM WITH SMART PLC: Comes with 15" interactive HMI, Central control system that synchronizes extruder, laminator, and rewinder speeds, maintains coating thickness across all line speeds using Auto Extruder Speed Control (AESC). Supports remote access, real-time monitoring, and process optimization

- Brush Type Cleaning System
- Hoists for Unwinder/Rewinders

* Will Vary Depending on the Model

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| CIRCULAR BAGS | | | | | | |
|---------------------------------|--|--|-----------------------------------|--|-----------------------------------|-----------------------------------|
| Model | Prime C750TD | Prime C1100TD | Prime C1500 | Prime C1500TD | Prime C1500HD | Prime BB1500 |
| Machine Extruder Type | Tandem | Tandem | Single with Turnbar | Tandem | Single with Turnbar | Single with Turnbar |
| Fabric Coating Type | DFL - Both Side SFL - One/Both Side | DFL - Both Side SFL - One/Both Side | DFL - Both Side SFL - One Side | DFL - Both Side SFL - One/Both Side | DFL - Both Side SFL - One Side | DFL - Both Side SFL - One Side |
| Screw Dia (mm) | 90 | 90 | 90 | 90 | 90 | 100 |
| Extrusion Melt Capacity (kg/hr) | Each up to 140 (2X140) | Up to 140 (2X140) | Up to 140 | Each up to 140 (2X140) | Up to 140 | Up to 200 |
| Coating Thickness* (micron) | 20-100 | 20-100 | 20-100 | 20-100 | 20-100 | 20-100 |
| Tubular Fabric Width (mm) | 300-750 | 450-1100 | 300-700 | 600-1500 | 300-700 | 300-700 |
| Flat Fabric Width (mm) | 300-750 | 450-1100 | 600-1500 | 600-1500 | 600-1500 | 600-1500 |
| Tubular Fabric Weight (gsm) | 50-100 | 50-100 | 50-150 | 50-150 | 50-100 | 50-100 |
| Flat Fabric weight (gsm) | 50-100 | 50-100 | 50-150 | 50-150 | 50-100 | 50-100 |
| Maximum Mechanical Speed (mpm) | Coating - 150 Lamination - 120 | Coating - 150 Lamination - 120 | Coating - 150 Lamination - 120 | Coating - 150 Lamination - 120 | Coating - 100 Lamination - 80 | Coating - 150 Lamination - 120 |

| FIBC | | TARPAULIN / WIDE WIDTH | | | | |
|---------------------------------|--|--|--|--|--|--|
| Model | Prime JB2050 | Prime JB2350 | Prime F1900 | Prime F1900TD | Prime FX1900 | Prime FX1900TD |
| Machine Extruder Type | Single with turnbar | Single with turnbar | Single with turnbar | Tandem | CoEx with Turnbar | CoEx Tandem |
| Fabric Coating Type | DFL - Both Side SFL - One Side | DFL - Both Side SFL - One Side | DFL - Both Side SFL - One Side | DFL - Both Side SFL - One/Both Side | DFL - Both Side SFL - One Side | DFL - Both Side SFL - One/Both Side |
| Screw Dia (mm) | 100 | 100 | 100 | 100 | 100+90 | 100+90 |
| Extrusion Melt Capacity (kg/hr) | Up to 200 | Up to 200 | Up to 200 | Each up to 200 (2X200) | Up to 280 (180+100) | Eac Upto 360 [2X(180+100)] |
| Coating Thickness* (micron) | 20-100 | 20-100 | 20-100 | 20-100 | 20-100 | 20-100 |
| Tubular Fabric Width (mm) | 500-900*** | 500-900*** | 450-800*** | 900-1900 | 450-800*** | 900-1900 |
| Flat Fabric Width (mm) | 1000-2050 | 1000-2350 | 900-1900 | 900-1900 | 900-1900 | 900-1900 |
| Tubular Fabric Weight (gsm) | 50-250 | 50-250 | 50-200 | 50-200 | 50-200 | 50-200 |
| Flat Fabric weight (gsm) | 50-250 | 50-250 | 50-200 | 50-200 | 50-200 | 50-200 |
| Maximum Mechanical Speed (mpm) | Coating - 80-100 With reinforcement - 50-60 Lamination - 50-60 | Coating - 80-100 With reinforcement - 50-60 Lamination - 50-60 | Coating - 80-100 Lamination - 50-60 | Coating - 80-100 Lamination - 50-60 | Coating - 80-100 Lamination - 50-60 | Coating - 80-100 Lamination - 50-60 |

| TARPAULIN / WIDE WIDTH | | | | |
|---------------------------------|--------------------|------------------------|--------------------|------------------------|
| Model | Prime F3100 | Prime FX3100 | Prime F3700 | Prime FX3700 |
| Machine Extruder Type | Single* | CoEx* | Single* | CoEx* |
| Fabric Coating Type | DFL/SFL - One Side | DFL/SFL - One Side | DFL/SFL - One Side | DFL/SFL - One Side |
| Screw Dia (mm) | 110 | 110+90 | 120 | 120+100 |
| Extrusion Melt Capacity (kg/hr) | Up to 250 | Up to 350 (250+100) | Up to 400 | Up to 550 (350+200) |
| Coating Thickness* (micron) | 20-100 | 20-100 | 20-100 | 20-100 |
| Tubular Fabric Width (mm) | 2000-3100 | 2000-3100 | 2500-3700 | 2500-3700 |
| Flat Fabric Width (mm) | 2000-3100 | 2000-3100 | 2500-3700 | 2500-3700 |
| Tubular Fabric Weight (gsm) | 50-200 | 50-200 | 50-200 | 50-200 |
| Flat Fabric weight (gsm) | 50-200 | 50-250 | 50-200 | 50-200 |
| Maximum Mechanical Speed (mpm) | Up to 80 | Up to 80 | Up to 80 | Up to 80 |

| POND LINER / SPECIALITY FABRIC | | |
|---------------------------------|--------------------|------------------------|
| Model | Prime F4150 | Prime FX4150 |
| Machine Extruder Type | Single* | CoEx* |
| Fabric Coating Type | DFL/SFL - One Side | DFL/SFL - One Side |
| Screw Dia (mm) | 130 | 130+110 |
| Extrusion Melt Capacity (kg/hr) | Up to 500 | Up to 750 (500+250) |
| Coating Thickness* (micron) | 20-100 | 20-100 |
| Tubular Fabric Width (mm) | 2500-4150 | 2500-4150 |
| Flat Fabric Width (mm) | 2500-4150 | 2500-4150 |
| Tubular Fabric Weight (gsm) | >50 | >50 |
| Flat Fabric weight (gsm) | >50 | >50 |
| Maximum Mechanical Speed (mpm) | Coating - 80-100 | Coating - 80-100 |

* Lower coating upto 10 micron is possible depending upon various process conditions and parameters.

** Other options available on request.

***Fabric width range for optional turn bar operation

Tandem configuration also available

Specifications are subject to change without prior notice, due to continuous developments.

These details are indicative and not binding.

Extreme values indicated are not achievable simultaneously.

The pictures may show optional equipments that are not a part of the standard supply.

For details, refer to the quotation.

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