



Deltora[®]
Biopolymers Pvt. Ltd.



extrutech
Quest for the best

Compostable Films. Engineered to Perform.

Advanced biodegradable blown film resins by Deltora,
processed on high-performance mono & multilayer
blow film plants by Extrutech



WHY THIS PARTNERSHIP WORKS

- ♦ Deltora-based products are certifiable to EN 13432 / IS 17088 / ASTM D6400.
- ♦ Mono to 9-layer blow film plant configurations
- ♦ Stable processing at lower temperatures
- ♦ Scalable output for commercial production
- ♦ Films that meet functional, aesthetic & shelf-life demands

Compostable Monolayer Films, Engineered for Stable Output



DELTORA MATERIAL ADVANTAGES

(Performance & Processing)

- ♦ PBAT-based formulation with high melt strength for stable bubble
- ♦ Low shrinkage for better lay-flat control and finish
- ♦ Strong sealing through thickness for reliable pack performance
- ♦ Built-in anti-block + slip for smooth handling and winding
- ♦ Optimised for 20–100 μ compostable monolayer films
- ♦ High dart impact + tear strength with clarity & printability

EXTRUTECH PLANT ADVANTAGES

(Output Stability & Control)

- ♦ Fast stabilisation for consistent output and lower waste
- ♦ Grooved feed+barrier screw for uniform melt & film gauge
- ♦ Designed for high-quality, repeatable film production
- ♦ Energy-efficient operation for better running economics
- ♦ Runs LD/LLDPE, HM/HDPE & biodegradable blends on one line
- ♦ RK9999 LS screw & barrel option for wear resistance & uptime

APPLICATIONS



Transparent Film



Semi-transparent Liner



Shrink Film



Cling Film



Shopping Bag/D-Cut Bag



Garbage Bag



Carry Bags



Grocery Bags



Nursery Bags

Multilayer Blown Film Systems for Advanced Compostable Structures



DELTORA MATERIAL ADVANTAGES

(Performance & Processing)

- ♦ Bio-based formulation tuned for LDPE/LLDPE-like film behaviour
- ♦ Compatible with multilayer structures : ABA / ABC / ABCBA
- ♦ Supports filler + recycled bio-content for efficient middle-layer use
- ♦ Delivers strong sealing performance for reliable pack integrity
- ♦ Provides clarity + tensile performance with balanced film properties
- ♦ Stable processing at 140–160°C, no melt fracture; 25–30% cost saving potential via layer optimisation (structure dependent)

EXTRUTECH PLANT ADVANTAGES

(Output Stability & Control)

- ♦ Configurable 3-9 layer platform for engineered film structures
- ♦ Precision layer distribution for repeatable composition & output
- ♦ Designed for high-speed running with controlled gauge uniformity
- ♦ IBC + advanced air-ring systems for stable bubble management
- ♦ Automation-ready for consistent production control (PLC-based configurations)
- ♦ Built to integrate with printing, lamination, & converting workflows

APPLICATIONS



VCI Film



Water Pouch



Mulch Film



ESDFilm



Milk Pouch



Bread Packing



Courier/Mailer Bages



Food Packaging



Stretch Film

One Platform. Multiple Film Markets.
Certified Compostable Performance.

DELTORA COMPOSTABLE FILM RESIN PORTFOLIO (DELFIL SERIES)

MILKY WHITE FILM RESIN (DELFIL-OP) Built for high-volume daily-use films-strong, opaque structure for carry bags, grocery bags and garbage bags.	SEMI-TRANSPARENT FILM RESIN (DELFIL-TR2) Balanced visibility and toughness-ideal for grocery bags, pouches, and protective covers.
TRANSPARENT FILM RESIN (DELFIL-TR1) Premium clarity with flexible handling-made for garment bags and liner bags.	STRETCH/CLING FILM RESIN (DELFIL-SW) Secure loads with confidence-engineered for stretch wrapping and cling films with strong holding power.
SHRINK FILM RESIN (DELFIL-SH) Tight, tamper-evident packaging-heat-shrink performance for secure retail & multipack applications.	VCI FILM RESIN (DELFIL-VCI) Protection built into the film-VCI technology for corrosion protection of metal parts.
HIGH SHELF-LIFE FILM RESIN (DELFIL-ML) Made for outdoor durability-ideal for mulch films and nursery bags.	HIGH BARRIER FILM RESIN (DELFIL-BR) Freshness-focused packaging-built for food-grade films including bread, milk, and perishable goods.
SPECIALTY PACKAGING FILM (CUSTOMISABLE) (DELFIL-MOP) Your target performance, built-to-order-tailor-made grades for niche packaging needs.	

EXTRUTECH BLOWN FILM PLANT SPECIFICATIONS

Specification	Monolayer	3-Layer	5-Layer	7-Layer	9-Layer
Extruders	1	3	5	7	9
Screw Ø (mm)	32–75	45–65	45–75	45–75	55–90
L/D Ratio	28:1 / 30:1	30:1	30:1 / 32:1	30:1 / 32:1	30:1 / 32:1
Output (kg/hr)	30–200	120–150	200–600	300–800	400–1000
Film Thickness (µ)	20–150	20–150	20–150	20–150	20–150
Film Width (mm)	150–2500	450–1500	500–3000	800–3500	1000–3200
Die Gap (mm)	1.2–2.2				
Cooling + IBC	Single/Dual-lip Air Ring	Dual-lip Air Ring + IBC		Triple-lip Air Ring + IBC	
Take-up Speed (m/min)	7 - 80	7 - 80	100 - 120	120 - 140	130 - 150
Winder	Surface / Pneumatic		Surface / Center		Center / Gap
Control System	Push-button sync (Master Ref.)	Semi/Full PLC	Full PLC + recipe + online thickness control		

DISCUSS YOUR TARGET FILM STRUCTURE AND OUTPUT

Share your required micron range, lay-flat width, output target, and structure (monolayer / ABA / ABC / ABCBA / 3-9 layer) to align the right Extrutech line configuration with the best-fit Deltora grade.



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