

EZASSI

Mono-material Recyclable Flexible Packaging

Commercial Signals · October 2026

A Commercial signal on mono-material recyclable flexible packaging: RecyClass technology decisions, new mono-film and pouch capacity, and high-barrier mono-PE film launches. Read for a mid-sized packaging manufacturer that converts film, paper and board for food, beverage and consumer goods brands. Three signals from one cycle.

#	SIGNAL	CONFIDENCE	HORIZON	STATUS
1	Two RecyClass decisions in 2026 cost a recyclability class: a barrier coating on PE film and a heat-resistant mono-PP film were both rated limited compatible	High	Immediate (0-3 months)	Verified
2	BOPP/BOPE film capacity and mono-ready pouch converting are being added in Asia and Europe, but no brand customer has been named for either new line	Medium	Short-term (3-12 months)	Review
3	Two US film makers launched high-barrier and heat-resistant mono-PE films for PACK EXPO; neither publishes barrier figures, and Pregis is How2Recycle-prequalified only	Medium	Immediate (0-3 months)	Review

Every signal rests on two or more dated events. Confidence is published as a band. Where a signal sits below High, the reasoning names the evidence that is missing. Status says where the evidence stands: Verified, Review, or Inconclusive — we looked, and the evidence does not yet support a firmer call.

SIGNAL 1 OF 3

Two RecyClass decisions in 2026 cost a recyclability class: a barrier coating on PE film and a heat-resistant mono-PP film were both rated limited compatible

HIGH Immediate (0–3 months) · Standards, Regulatory & Market Access · **Verified**

On February 19, 2026, RecyClass rated Aegis Packaging's O2X barrier coating "limited compatible with the existing European industrial recycling processes for coloured PE flexibles". On October 9, 2026, it rated Taghleef Industries' TTR 15, a heat-resistant PP-based film, "limited compatible with PP flexibles recycling". Both ratings cost one recyclability class.

REASONING

Two dated letters from the same body, for two polymer streams and two different functions, point the same way: the feature that lets a mono film replace a laminate can cost a class. TTR 15 is a heat-resistance technology, not a barrier. The downgrade is specific to each technology, not a general rule for barriers. The RecyClass Design Book, last updated in March 2026, puts AlOx and SiOx without primer, and EVOH at 5% or less with the right tie layers, in its first group for PE films. Metallization and PVOH sit in the middle group, for colored films only. The Design Book also says other barriers "must be further investigated".

PATTERN

February 19, 2026 (letter date): RecyClass rated the Aegis Packaging O2X barrier coating limited compatible with colored PE flexibles recycling. Conditions: PE film density below 0.97 g/cm³, coating at 0.32 wt% of the pack or less, and a solvent-based 2K aliphatic PU adhesive at 3.4 wt% or less. The letter rates the technology, not a specific package. Above 95% recyclable PE supports Class B; above 80% supports Class C. March 2026: RecyClass published the latest update of its Design Book. October 9, 2026 (letter date): RecyClass rated Taghleef Industries TTR 15, a BOPP-core film with semi-aromatic polyamide for heat resistance, limited compatible with PP flexibles recycling. Conditions: PP at least 94.5 wt% of the pack and semi-aromatic PA at 5.4 wt% of the film or less. The letter states the technology is "penalised with one Recyclability Class downgrade".

IMPLICATION

A converter that sells a high-barrier or heat-resistant mono-PE or mono-PP structure as a laminate replacement may be selling a pack one recyclability class lower than the customer expects. Each letter carries its own conditions on coating or polyamide weight, polymer share and adhesive. A structure outside those conditions is not covered. A launch described as "recycle-ready" or "designed against RecyClass criteria" is not an approval.

RECOMMENDED ACTION

Before you next quote a high-barrier or heat-resistant mono-PE or mono-PP structure as recyclable, get the RecyClass letter for each functional layer and check its conditions: coating or polyamide weight, polymer share and adhesive. Price the one-class downgrade into the offer, and do not pass on a supplier's "recycle-ready" claim as an approval.

SOURCES & WHAT THEY SIGNAL

- [RecyClass — Technology approval letter, Aegis Packaging O2X barrier coating, February 19, 2026](#) — Limited compatible with colored PE flexibles; coating, density and adhesive conditions.

- [RecyClass — Technology approval letter, Taghleef Industries TTR 15, October 9, 2026](#) — Limited compatible with PP flexibles; one recyclability class downgrade; PP and polyamide conditions.
- [RecyClass — Design Book, March 2026](#) — Groups barrier technologies for PE films; the downgrade depends on the technology.

SIGNAL 2 OF 3

BOPP/BOPE film capacity and mono-ready pouch converting are being added in Asia and Europe, but no brand customer has been named for either new line

MEDIUM Short-term (3–12 months) · Supply & Production Readiness · **Review**

Polyplex's Thai subsidiary disclosed on October 7, 2026 that it will buy a 12,000 t/yr BOPP/BOPE line, with completion by early 2028. Masterpress put a pouch line that converts mono-PE, single-layer PP and paper-based structures into full operation in Poland in September 2026. Jindal Films' new BOPP/BOPE line at Brindisi, Italy is due in the second half of 2026; its start-up has not yet been reported.

REASONING

Three dated investments cover film supply and pouch converting in two regions. Two are confirmed by a stock exchange filing and a trade report; the third is a company announcement with no reported start-up. The band is held at Medium because none of the sources names a brand customer, and none gives barrier data or food-contact documents for the new output. Toppan's hybrid BOPP/BOPE line in India, in mass production since mid-November 2025, is earlier background capacity.

PATTERN

October 7, 2025: Jindal Films Europe announced a 10 m Brückner hybrid BOPP/BOPE orienter at Brindisi, Italy, due on stream in the second half of 2026; start-up not yet reported. September 2026: Masterpress's Karlville Swiss pouch machine at Białystok, Poland became fully operational. It converts mono-PE, single-layer PP and paper-based structures as well as standard laminates, in 2SS, 3SS and stand-up formats, with or without zippers (reported October 14, 2026). October 7, 2026: Polyplex disclosed in a filing that its Thai subsidiary will buy a second-hand 6.6 m five-layer BOPP/BOPE line from Taghleef Industries Inc., USA, where it has run for two years. The line adds 12,000 t/yr to 98,045 t/yr, about 12%, costs ₹147 crore (US\$15.2 million) from internal accruals, and is due for completion by January–March 2028.

IMPLICATION

More BOPP and BOPE film and more mono-ready pouch converting will be available to buy between now and early 2028. Availability is not qualification. A converter still needs barrier data, food-contact declarations and line trials before it can put a new film into a customer specification in place of a qualified laminate.

RECOMMENDED ACTION

Before you specify BOPE or BOPP for 2027 programs, ask Jindal for a start-up date and grade list for Brindisi, and ask Polyplex which grades the Thai line will run. From each, get OTR and WVTR at stated test conditions and food-contact declarations.

SOURCES & WHAT THEY SIGNAL

- [Arthneeti — Polyplex Corporation disclosure under Regulation 30 of SEBI listing regulations, October 7, 2026](#) — Line purchase, seller, 12,000 t/yr capacity, cost and completion date.
- [Packaging Insights — Masterpress recyclable pouch production, October 14, 2026](#) — Pouch line in full operation since September; mono-PE, PP and paper-based structures.

- [Jindal Films — Jindal Films Europe strengthens European operations with major investment in Brindisi, Italy, October 7, 2025](#) — 10 m hybrid BOPP/BOPE orienter due on stream in the second half of 2026.

SIGNAL 3 OF 3

Two US film makers launched high-barrier and heat-resistant mono-PE films for PACK EXPO; neither publishes barrier figures, and Pregis is How2Recycle-prequalified only

MEDIUM Immediate (0–3 months) · First Deployments & Adoption · **Review**

Pregis released a mono-material metallized PE ultra-high-barrier sealant film on September 24, 2026, positioned against metallized OPP and PET. Charter Next Generation's next-generation MDO-PE films, in heat-resistant, high-barrier and matte print grades, were reported on October 7, 2026. Neither company gives barrier figures, and neither has a full recyclability approval.

REASONING

Two dated launches from two US film makers, both shown at PACK EXPO International, offer mono-PE in place of metallized and mixed-material films. Their recyclability claims differ. Pregis is "prequalified as store drop-off recyclable through How2Recycle", which is not full approval. Charter Next Generation calls its recycle-ready formats APR-compliant, a cited standard but not an APR recognition letter. A common trade-press reading is that European brand owners lean toward mono-PP and North American converters toward mono-PE. These launches fit the North American side of that reading but do not prove a split. In Europe, Südpack launched a mono-PP spouted pouch for drinkable yogurt on company claims, with no certification and no brand named.

PATTERN

September 9, 2026: Südpack's mono-PP spouted pouch for drinkable yogurt was reported in Europe. September 24, 2026 (release date): Pregis launched its mono-material metallized PE ultra-high-barrier sealant film, prequalified for How2Recycle store drop-off. October 7, 2026: Charter Next Generation's next-generation MDO-PE platform was reported, with a heat seal window 50% wider by the company's own claim, and APR-compliant recycle-ready formats. October 18–21, 2026: PACK EXPO International, with Pregis at booth S-3874 and Charter Next Generation films demonstrated at the Totani America booth, LU-7918.

IMPLICATION

North American customers will be offered mono-PE films as drop-in replacements for metallized PET and OPP laminates. Without barrier figures, line trials or a recyclability document for the finished structure, a converter cannot confirm shelf-life performance or the recyclability claim it would pass on.

RECOMMENDED ACTION

Before you quote either film to a North American customer as a replacement for metallized PET or OPP, ask for OTR and WVTR at stated conditions, run a trial on your own laminating and pouch lines, and get the How2Recycle or APR document for each structure. Check both companies' news pages after PACK EXPO for any new approvals.

SOURCES & WHAT THEY SIGNAL

- [Packaging Dive — New metallized PE film from Pregis brings recyclability to high-barrier food packaging. September 24, 2026](#) — Release; How2Recycle prequalification; no barrier figures.
- [PlasticsToday — CNG expands recycle-ready films platform. October 7, 2026](#) — Heat-resistant, high-barrier and matte MDO-PE grades; APR-compliant formats.

- [Packaging Europe — Südpack unveils mono-PP pouch solution for yoghurt drink market, September 9, 2026](#)
 - European mono-PP pouch launch on company claims; no certification named.

SET UP A SIGNAL ON YOUR QUESTION

Your question, checked every cycle.

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info@ezassi.com · ezassi.com