

Product Focus

Polyolefins & Engineering Polymers

Advanced polyolefins, engineering polymers, and compounds



LyondellBasell

Omya Performance
Polymer Distribution



Polyolefins & Engineering Polymers

Advanced polyolefins, engineering polymers, and compounds

Elevating performance with advanced polyolefins and specialty polymers

LyondellBasell is a global leader in advanced polyolefins, specialty polymers, and engineering polymer compounds, delivering material technologies that combine **flexibility, lightweight performance, enhanced haptics, sealing performance, mechanical strength, and long-term durability**.

Available through Omya Performance Polymer Distribution across selected European markets, the portfolio spans polypropylene resins and compounds, Catalloy® reactor TPOs, Polybutene-1 technologies, specialty sealing and packaging materials, and engineering polymer compounds and blends.

From soft-touch, flexible materials and high-performance sealing solutions to reinforced polymers offering stiffness, impact resistance, dimensional stability, and thermal performance, LyondellBasell technologies enable manufacturers to address diverse application requirements across **automotive, packaging, consumer, industrial, electrical & electronics, construction**, and other demanding markets.

Omya Performance Polymer Distribution combines access to LyondellBasell's advanced material technologies with application-focused material selection, technical expertise, and dependable regional supply, helping customers identify the optimum material and grade for their processing and performance requirements.

Portfolio overview

Material family	Brand	Core positioning
 Polypropylene resins, compounds & TPOs	Hifax®	Lightweight PP resins and compounds combining flexibility, toughness, impact resistance, and low-temperature performance
	Hostacom®	Tailored PP compounds and TPOs delivering stiffness, impact resistance, dimensional stability, and durable performance
	Softell®	Soft-touch PP resins and compounds combining enhanced haptics, flexibility, grip, and surface durability
 Specialty sealing & packaging solutions	Adflex®	Flexible and tough Catalloy® reactor TPOs for packaging and other demanding applications
	Adsyl®	High-performance sealing solutions offering low seal initiation temperatures, hot tack, and good optical properties
	Toppyl®	PB-1-based seal-peel solutions delivering controlled peel force and easy-open packaging performance
 Polybutene-1 solutions	Polybutene-1	High-performance PB-1 resins offering creep resistance, flexibility, chemical resistance, and long-term durability
	Koattro®	PB-1 plastomers delivering softness, flexibility, elasticity, and polyolefin modification performance
	Schulablend®	PC/ABS, PC/ASA, and PET-G solutions balancing toughness, thermal performance, weatherability, and processing performance
 Engineering polymers & compounds	Schuladur®	PBT/ASA engineering compounds delivering dimensional stability, thermal performance, and weather resistance
	Schulamid®	PA66 engineering compounds offering high strength, stiffness, thermal resistance, and durability



Polypropylene resins, compounds & TPOs

Lightweight polypropylene and TPO technologies delivering tailored combinations of flexibility, stiffness, impact resistance, dimensional stability, surface quality, enhanced haptics, and processing performance for demanding applications.

Hifax® polypropylene (PP) resins and compounds

Hifax® from LyondellBasell is a versatile family of polypropylene resins and compounds produced using proprietary Catalloy® process technology. Combining **flexibility, impact resistance, dimensional stability, heat resistance, and efficient processability**, Hifax® materials provide lightweight, durable solutions for demanding applications.

Selected grades offer excellent low-temperature impact performance and a tailored balance of stiffness and toughness, supporting applications across automotive, building & construction, wire & cable, and industrial markets.

Hostacom® polypropylene (PP) compounds and thermoplastic polyolefins (TPOs)

Hostacom® from LyondellBasell is a broad family of polypropylene compounds and thermoplastic polyolefins, including glass fiber-reinforced, mineral-filled, and unfilled solutions. The portfolio enables properties to be tailored to specific application requirements, including **stiffness, impact resistance, dimensional stability, heat resistance, surface quality, and processability**.

Combining lightweight performance with strength and durability, Hostacom® materials are widely used for automotive interior, exterior, under-the-hood, and structural components, as well as electrical appliances and other demanding technical applications.

Softell® soft-touch polypropylene (PP) resins and compounds

Softell® from LyondellBasell is a family of soft-touch polypropylene resins and compounds based on proprietary Catalloy® process technology, designed to combine **enhanced haptics with flexibility, toughness, scratch resistance, and temperature resistance**. Plasticizer-free and highly compatible with other polyolefins, Softell® materials are well suited to automotive interiors, electrical appliances, hand and power tools, furniture, TPO skins, and other consumer and industrial applications where soft-touch aesthetics, grip, durability, and processing performance are important.





Key benefits

Material performance	Value for manufacturers
Lightweight performance	Supports component weight reduction while meeting application-specific mechanical and performance requirements
Tailored stiffness and flexibility	Broad material options enable the optimum balance of rigidity, flexibility, and mechanical performance
High impact resistance	Supports durable components exposed to mechanical loads and demanding service conditions
Low-temperature performance	Selected grades maintain toughness and impact performance in cold environments
Dimensional stability	Selected compounds provide excellent dimensional control for demanding components
Heat and temperature resistance	Formulations are available for applications requiring reliable performance at elevated temperatures
Enhanced haptics and soft-touch performance	Soft-touch options enable comfortable tactile surfaces, enhanced grip, and improved user experience
Surface quality and scratch resistance	Selected grades provide attractive, durable surfaces for visible and frequently handled components
Broad formulation flexibility	Unfilled, mineral-filled, reinforced, impact-modified, and soft-touch options support diverse application requirements
Efficient processing	Grades are available for established thermoplastic processing technologies, including injection molding and extrusion

Processing capability

LyondellBasell Hifax®, Hostacom®, and Softell® technologies are designed for efficient processing using established thermoplastic manufacturing methods, including injection molding and extrusion, with selected grades also suitable for processes such as calendering and extrusion blow molding.

Tailored flow characteristics and formulation options support efficient production of components ranging from flexible, impact-resistant, and soft-touch parts to stiff, reinforced structures, helping manufacturers achieve consistent processing and high-quality finished components.





Specialty sealing & packaging solutions

Advanced polyolefin technologies delivering flexibility, toughness, low-temperature sealing, hot tack, optical performance, and efficient film processing for demanding packaging and specialty applications.

Adflex® Catalloy reactor thermoplastic polyolefin (TPO)

Adflex® Catalloy reactor TPOs, produced using LyondellBasell's proprietary Catalloy® process technology, combine **excellent flexibility and toughness with strong low-temperature impact performance and efficient processability**. Their versatile property profile supports flexible packaging applications requiring durability, softness, and performance, while selected grades are also suited to consumer goods and industrial applications.

Adsyl® propylene-based random copolymers and terpolymers

Adsyl® from LyondellBasell is a portfolio of propylene-based random copolymers and terpolymers designed primarily for high-performance film sealing applications. Combining **low seal initiation temperatures, excellent hot tack, good optical properties, and efficient processing**, Adsyl® materials are widely used as sealing or skin layers in BOPP, cast, blown, and coextruded film structures for food and beverage, industrial, and other flexible packaging applications.

Toppyl® polybutene-1-based (PB-1) seal-peel solutions

Toppyl® from LyondellBasell is a portfolio of polybutene-1-based seal-peel solutions developed for easy-open flexible packaging applications. Designed to provide **consistent, controlled peel force across a broad sealing temperature window**, selected Toppyl® solutions can seal to a range of substrates, including PE, PP, PS, and PET.

Suitable for blown, cast, sheet, and coextruded film technologies, Toppyl® supports food packaging, lidding films, pouches, and other flexible packaging structures where reliable sealing, easy opening, and efficient processing are required.



Key benefits

Material performance	Value for manufacturers
Low seal initiation temperatures	Enables reliable sealing at lower temperatures with selected grades, supporting efficient packaging conversion
Excellent hot tack	Supports strong seals while packaging materials are still hot, particularly valuable in high-speed packaging operations
Flexible and tough performance	Enables durable film structures capable of withstanding handling, flexing, and demanding service conditions
Low-temperature performance	Selected grades maintain flexibility and toughness at reduced temperatures
Good optical properties	Supports clear, attractive film structures where product visibility and appearance are important
Film modification	Enables properties such as flexibility, toughness, and sealing behavior to be tailored within multilayer structures
Broad film compatibility	Supports use in BOPP, cast, blown, and coextruded film structures, depending on grade
Controlled peel performance	Provides consistent peel force for reliable, consumer-friendly easy-open packaging
Broad sealing window	Supports reliable sealing across a wide temperature range, helping improve processing flexibility and consistency
Multi-substrate sealing	Selected solutions enable sealing to substrates including PE, PP, PS, and PET, supporting versatile packaging structures
Efficient processing	Materials are designed to support reliable conversion and high-productivity film processing



Processing capability

Adflex®, Adsyl®, and Toppyl® technologies are designed for efficient processing across a range of film manufacturing and conversion technologies. Depending on grade and application, the portfolio supports BOPP, cast, blown, sheet, and coextruded film technologies, with materials used as functional sealing, skin, modification, and seal-peel layers within packaging structures.

Tailored flexibility, sealing behavior, hot tack, controlled peel performance, optical properties, and processing characteristics enable manufacturers to optimize film structures for packaging performance, conversion efficiency, and end-use requirements.

Polybutene-1 solutions

High-performance PB-1 technologies combining flexibility, long-term durability, creep resistance, polymer compatibility, and processing versatility across piping, packaging, compounds, and specialty applications.

Polybutene-1 (PB-1)

Polybutene-1 (PB-1) from LyondellBasell is a versatile family of high-performance polyolefin resins combining **excellent long-term creep resistance, flexibility across a broad temperature range, excellent weldability, chemical resistance, and low noise transmission.**

Its balanced mechanical and thermal properties make it suitable for applications including hot and cold water pipe systems, underfloor heating, district heating, radiator connections, pressure piping, easy-open packaging, film and polyolefin modification, and hot-melt adhesives where long-term durability and reliable processing performance are essential.

Koattro® polybutene-1 (PB-1) plastomers

Koattro® from LyondellBasell is a family of high-performance polybutene-1 plastomers offering an excellent combination of **softness, flexibility, elasticity, impact resistance, and compatibility with polypropylene.**

Its versatile property profile makes Koattro® well suited to film and packaging, polymer modification, tubing, caps and closures, gaskets, TPE and TPV compounds, and hot-melt adhesives where enhanced flexibility, toughness, sealing performance, or processing characteristics are required.

Key benefits

Material performance	Value for manufacturers
Long-term creep resistance	Supports durable performance in piping and other applications exposed to sustained mechanical loads
Flexibility and elasticity	Enables flexible components and structures while supporting recovery and long-term performance
Broad temperature performance	Supports reliable performance across a wide range of operating temperatures
Chemical resistance	Provides durability in applications exposed to water, chemicals, and demanding service environments
Excellent weldability	Supports reliable joining and installation in piping systems
Polyolefin compatibility	Enables modification of polypropylene and other polyolefin systems to tailor flexibility, toughness, and processing behavior
Sealing and film performance	Selected grades support easy-open packaging, film modification, and tailored sealing characteristics
Low noise transmission	Supports quieter fluid-handling systems and other applications where acoustic performance is important
Processing versatility	Broad grade options support piping, film, compounding, adhesives, and other manufacturing technologies



Engineering polymers & compounds*

High-performance engineering thermoplastics and polymer blends delivering strength, impact resistance, dimensional stability, thermal performance, weatherability, and durability for demanding technical applications.

Schulablend® polycarbonate/acrylonitrile butadiene styrene (PC/ABS)

Schulablend® PC/ABS from LyondellBasell **combines the toughness and heat resistance of polycarbonate with the balanced mechanical performance and processability of ABS.** Available in grades offering tailored impact strength, heat resistance, flow, UV stability, and reinforcement, Schulablend® PC/ABS is well suited to automotive components, electrical and electronic housings, consumer products, and industrial applications requiring a strong balance of performance, dimensional stability, and processing efficiency.

Schulablend® polycarbonate/acrylonitrile styrene acrylate (PC/ASA)

Schulablend® PC/ASA **combines the toughness and thermal performance of polycarbonate with the excellent weatherability and UV resistance associated with ASA.** Designed for applications requiring durable performance in outdoor and environmentally exposed conditions, it is well suited to automotive exterior components, electrical enclosures, telecommunications equipment, and other demanding applications where appearance and long-term performance are important.

Schulablend® polyethylene terephthalate glycol (PET-G)

Schulablend® PET-G from LyondellBasell is a family of impact-modified copolyester compounds **combining transparency, toughness, high chemical resistance, and excellent flow characteristics.** Selected grades are available with UV stabilization and options intended for food-contact, supporting applications across consumer appliances, personal care & hygiene, and other demanding consumer applications.

Schuladur® polybutylene terephthalate/acrylonitrile styrene acrylate (PBT/ASA)

Schuladur® PBT/ASA **combines the dimensional stability, thermal performance, and chemical resistance of PBT with the weatherability and surface characteristics associated with ASA.** Selected reinforced grades provide high stiffness, reduced warpage, and excellent surface quality, making them suitable for demanding automotive, electrical and electronic, industrial, and other applications requiring dimensional accuracy and reliable long-term performance.

Schulamid® polyamide 66 (PA66)

Schulamid® PA66 from LyondellBasell is a family of engineering thermoplastic compounds **offering high mechanical strength, stiffness, thermal resistance, and durability.** Available in reinforced and specially modified grades, Schulamid® PA66 can provide enhanced heat-aging resistance, toughness, dimensional stability, oil resistance, and stiffness, supporting demanding automotive, electrical and electronic, industrial, and structural applications.



* Engineering polymers & compounds available in Switzerland only.



Key benefits

Material performance	Value for manufacturers
High mechanical strength and stiffness	Supports durable components capable of meeting demanding structural and mechanical requirements
Impact resistance and toughness	Enables components to withstand mechanical loads, handling, and demanding service conditions
Thermal performance	Selected grades maintain mechanical performance and dimensional integrity at elevated temperatures
Dimensional stability	Supports accurate, consistent components where tight tolerances and reliable fit are important
Weatherability and UV resistance	Selected PC/ASA and PBT/ASA technologies support long-term performance in outdoor and environmentally exposed applications
Chemical and oil resistance	Selected materials provide resistance to chemicals, oils, and other challenging service environments
Reinforcement options	Reinforced grades provide enhanced stiffness, strength, dimensional control, and application-specific performance
Surface quality and aesthetics	Selected technologies support high-quality surfaces for visible and appearance-critical components
Processing versatility	Broad material and grade options enable manufacturers to balance processing requirements with end-use performance

Processing capability

LyondellBasell Schulablend®, Schuladur®, and Schulamid® engineering polymer technologies are designed for efficient processing using established thermoplastic manufacturing methods, with injection molding among the principal processing technologies and additional processing options available depending on material and grade.

A broad range of polymer blends, reinforced compounds, and modified grades enables manufacturers to select materials according to component geometry, processing requirements, and end-use performance, supporting efficient production of durable, dimensionally stable, and high-quality technical components.





Where LyondellBasell polymer technologies perform

LyondellBasell's portfolio combines advanced polypropylene resins and compounds, TPOs, specialty sealing and packaging solutions, Polybutene-1 technologies, and engineering polymers, enabling manufacturers to address a broad range of mechanical, thermal, processing, aesthetic, and functional requirements.

With material solutions spanning lightweight and reinforced components, soft-touch surfaces, flexible and easy-open packaging, piping systems, and demanding technical parts, LyondellBasell supports applications across automotive, packaging, building & construction, electrical & electronics, consumer goods, industrial, healthcare, and other specialized markets.

Industry	Typical applications
Automotive & mobility	Interior and exterior trim, instrument panels, soft-touch surfaces, under-the-hood components, structural parts, electrical housings, seals, protective components, and more.
Packaging	Flexible films, sealing and skin layers, easy-open and peelable packaging, lidding films, pouches, food packaging, caps and closures, and more.
Building & construction	Hot and cold water piping, underfloor and district heating systems, radiator connections, pressure pipes, profiles, building components, and more.
Electrical & electronics	Electrical housings, connectors, switches, appliance components, telecommunications equipment, cable applications, technical enclosures, and more.
Consumer goods & appliances	Soft-touch grips and surfaces, hand and power tools, appliance components, furniture, housings, closures, durable consumer products, and more.
Industrial	Technical components, fluid-handling systems, reinforced structural parts, gaskets, tubing, polymer compounds, protective components, and more.
Healthcare & medical	Selected medical and healthcare packaging, tubing, housings, and other approved applications, subject to grade-specific regulatory requirements.
Adhesives & polymer modification	Hot-melt adhesives, TPE and TPV compounds, polypropylene modification, film modification, impact modification, and specialty compounds.

Why work with Omya Performance Polymer Distribution?

Customers sourcing LyondellBasell materials through Omya Performance Polymer Distribution benefit from:

- A comprehensive portfolio of advanced polyolefin, specialty polymer, and engineering polymer technologies
- Local commercial, technical and application support
- Material selection and grade optimization aligned with performance, processing and regulatory requirements
- Processing guidance and troubleshooting support
- Reliable regional logistics and multi-country coordination, subject to product availability
- Close collaboration with LyondellBasell technical teams from concept through production



Let's develop your next application together

LyondellBasell's engineering plastics portfolio enables manufacturers to achieve reliable performance, efficient processing, and scalable innovation across a wide range of applications.

Whether you are optimizing an existing material selection or developing a new application, Omya Performance Polymer Distribution works closely with you to identify the right solution – supporting you from initial concept through to full-scale production.

Contact Omya Performance Polymer Distribution

To discuss your application, material requirements, or grade selection, contact your local Omya Performance Polymer Distribution representative or visit: www.omya.com



omya.com



Talk to an expert

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