WORLD CONTINENTAL IMPEX

(WCI)

Engineering Polymer Compounds
& Recycling Solutions

EXECUTIVE SUMMARY

World Continental Impex (WCI): A Reliable Partner in Polymer Solutions

With over 30 years of experience in polyethylene film production and polymer recycling, World Continental Impex (WCI) provides high-quality materials designed to support efficient supply chains. Our offerings include Polyethylene (PE), Polystyrene (PS), Pipe Grades, Polypropylene (PP), and Recycled Flakes, all produced with a focus on consistent performance and traceability. Each shipment is accompanied by a Certificate of Analysis (COA) and access to archived test data, along with dedicated technical support to assist in achieving optimal results.

Key Benefits of Partnering with WCI:

- Consistent Quality: Materials meet precise specifications to help reduce potential production issues.
- Traceability: Documentation from raw materials to final products supports supply chain transparency.
- Responsive Service: Technical and logistics inquiries are addressed within 24 hours.
- Customized Options: Formulations, colors, and additives can be tailored to specific project requirements.
- Sustainability Focus: Our recycled materials contribute to environmental objectives, aligning with industry practices for reduced environmental impact.

Our Mission: To utilize our extensive experience in delivering dependable polymer solutions that enhance supply chain efficiency and value.

Our Vision: To serve as a global collaborator in engineered and recycled polymers, supporting a more sustainable plastics industry.

We invite you to contact us to explore how our solutions can align with your operations.

WHY WCI IS A SUITABLE PARTNER

Collaborating with **World Continental Impex (WCI)** means selecting a company committed to supporting your operational needs. Drawing on more than 30 years in the polymer sector, we supply materials that integrate innovation and sustainability to strengthen your supply chain. Each delivery reflects our dedication to quality, environmental responsibility, and client satisfaction.

Distinguishing Features of WCI:

- Reliable Quality: Precise specifications and a Certificate of Analysis (COA) for each lot help maintain production consistency.
- Comprehensive Traceability: Full documentation from raw materials to end products ensures compliance and security in your supply chain.
- Timely Assistance: Quotes, samples, and technical advice are provided within 24 hours to support uninterrupted operations.
- Personalized Solutions: Custom formulations, colors, and additives are developed to meet your product specifications.
- Environmental Commitment: Recycled PE and PS options assist in pursuing circular economy principles.
- Efficient Logistics: Compliant shipping, standard packaging (25 kg bags or big bags), and adaptable stocking options are designed to optimize time and costs.
- Client-Aligned Approach: Minimum order quantities (MOQs) and delivery timelines are adjusted to fit your planning needs.

At WCI, we aim to function as a collaborative partner, helping to improve operational efficiency and sustainability. Please reach out to discuss how we can support your supply chain.

OUR PRODUCT PORTFOLIO

At **World Continental Impex (WCI)**, our more than 30 years of industry experience have informed a product range that serves sectors such as packaging, infrastructure, consumer goods, and technical applications. Our materials are formulated for reliable performance, including dimensional stability and controlled rheology, to facilitate effective production and contribute to sustainable practices.

We offer both virgin compounds and recycled alternatives, providing options that balance cost efficiency with technical requirements.

Core Product Categories:

- Polyethylene (PE) Compounds: Versatile and durable, suitable for packaging, agricultural, and infrastructure uses.
- Polystyrene (PS) Compounds: Transparent and robust, applicable in packaging, electronics, and consumer products.
- Pipe Grades (PE100, PE100-RC, MDPE, PEX): Designed for longevity in water, gas, and heating systems.
- Polypropylene (PP): Lightweight and resilient, ideal for packaging and automotive applications.
- Recycled Flakes (PE & PS): Environmentally conscious alternatives that support cost savings and sustainability initiatives.

With WCI, you gain access to materials that help meet technical standards while advancing environmental goals. Contact us to identify the most appropriate solutions for your needs.

POLYSTYRENE – HIPS

WCI HIPS 7240 (Original) is a high-impact polystyrene grade developed for the extrusion and thermoforming industries. It offers excellent melt strength, stable rheology, and balanced toughness, making it an ideal choice for dairy sheets, rigid containers, multilayer packaging, and thermoformed products such as cups, trays, and egg boxes.

WCI HIPS Compound builds on this foundation by incorporating impact modifiers, stabilizers, and pigments. This results in a material with superior surface quality, uniform melt flow, and higher durability, tailored for demanding industrial and consumer applications. It is widely used in refrigerator liners, TV housings, food packaging, and injection-molded parts requiring both performance and cost efficiency. Together, WCI HIPS 7240 and WCI HIPS Compound form a versatile product line that ensures consistent processing, durability, and aesthetic quality, with options for color matching, UV stabilization, and customer-specific formulations.

Grade	MFI (g/10min)	Density (g/cm^3)	Key Features	Typical Applications
WCI HIPS 7240	4.5	~1.04 (typical)	Excellent melt strength, stable rheology, balanced toughness, suitable for mono-layer and co-extrusion	Dairy & industrial sheets, rigid containers up to 5L, multilayer sheets, thermoformed cups, trays, lids, egg boxes
WCI HIPS Compound	10.5	1.40	Impact-modified, uniform melt flow, superior surface quality, cost-effective for industrial use	Refrigerator liners, TV housings, small appliance casings, food packaging, disposable containers, trays & display packaging

POLYSTYRENE – EPS

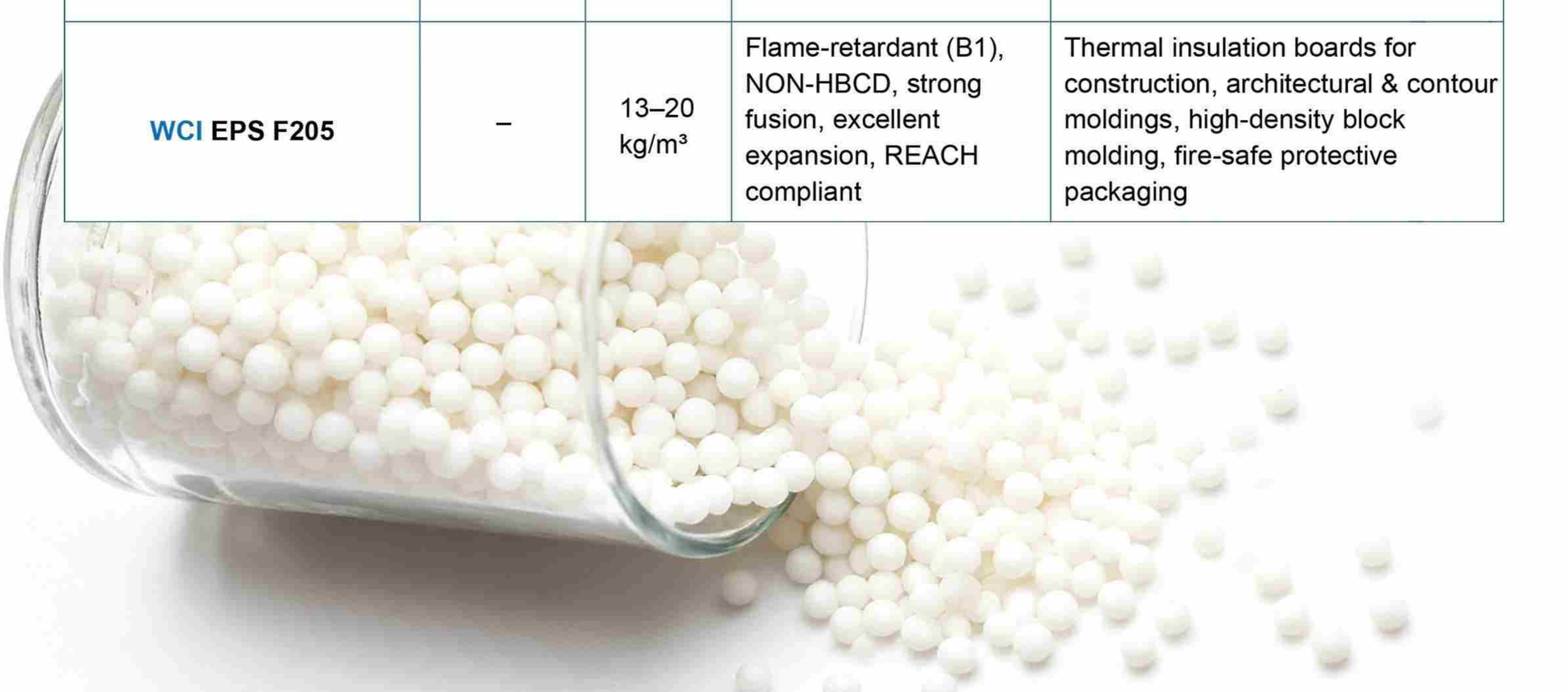
WCI EPS (Expandable Polystyrene) grades are lightweight, rigid beads designed to provide a unique combination of thermal insulation, acoustic damping, shock absorption, and recyclability. Produced with controlled bead size and low residual moisture, these grades ensure uniform cell structure, stable processing, and excellent expansion behavior.

WCI EPS Compound is a versatile grade used in packaging, construction, and consumer goods, offering both cushioning and insulation. WCI EPS Compound (Grade 2) provides higher melt flow for applications requiring faster processing, including insulation panels, lightweight concrete, and food packaging. For applications where certified fire safety is critical, WCI EPS F205 delivers flame-retardant performance with NON-HBCD formulation, making it ideal for construction, block molding, and protective packaging.

Together, these grades ensure that WCI EPS meets the needs of industries ranging from packaging and consumer products to construction and technical insulation, while supporting sustainability and cost-efficiency.

Product Portfolio – EPS

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI EPS Compound	10–14	1.05	Fire-retardant, bead size 4–6 mm, density 12–14 g/L, excellent thermal & acoustic insulation, low moisture (0.2–0.5%)	Packaging for electronics & appliances, insulation boards & blocks, disposable cups, trays, lightweight molded profiles
WCI EPS Compound (Grade 2)	18–23	1.03	Lightweight, rigid beads, high melt flow, superior cushioning & recyclability	Insulation panels, lightweight concrete, protective packaging, food containers, block & shape molding, craft & industrial items
WCI EPS F205	–	13–20 kg/m³	Flame-retardant (B1), NON-HBCD, strong fusion, excellent expansion, REACH compliant	Thermal insulation boards for construction, architectural & contour moldings, high-density block molding, fire-safe protective packaging



POLYSTYRENE – GPPS

WCI GPPS 32N (General Purpose Polystyrene) is a crystal-clear thermoplastic resin that delivers a combination of excellent clarity, easy flow, balanced mechanical strength, and high surface gloss. With its low viscosity at high shear rates, it is highly efficient for injection molding processes, while also performing well in extrusion and co-extrusion applications.
This grade is particularly suited for transparent consumer products, glossy packaging films, and extrusion sheets, where both rigidity and appearance are essential. In addition, GPPS 32N can be blended with HIPS to achieve improved impact resistance and tailored performance, offering processors greater flexibility across different applications.

Product Portfolio – GPPS

Grade	MFI (g/10min)	Density (g/cm^3)	Key Features	Typical Applications
WCI GPPS 32N	10	1.04	Crystal clarity, high surface gloss, easy flow, balanced stiffness & impact	Disposable cups, cutlery, transparent consumer products, glossy sheets & films, toys, office supplies, small appliance parts

POLYSTYRENE – OPS

WCI GPPS-OPS (Oriented Polystyrene) is a high-performance grade produced by stretching extruded polystyrene (PS) film. This orientation process delivers enhanced transparency, increased stiffness, and superior surface gloss, making OPS an excellent choice for packaging and labeling applications where both clarity and dimensional stability are essential.

Thanks to its reliable processability, WCI GPPS-OPS performs well in thermoforming, printing, and labeling processes. It allows converters to achieve precise shaping, consistent forming, and high-quality finishes, all at competitive cost. The combination of optical clarity, lightweight rigidity, and aesthetic appeal makes OPS a preferred solution for industries requiring visually attractive and functional packaging.

Product Portfolio – OPS

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI GPPS-OPS	9–11	1.03	Oriented PS film, enhanced clarity & gloss, high stiffness, good processability	Thermoformed trays, cups & lids; shrink & wrap-around labels; blister packs, folding cartons, decorative packaging

POLYSTYRENE – RPS

WCI RPS Compound is a thermoplastic grade engineered from a blend of post-consumer recycled (PCR) and post-industrial recycled (PIR) polystyrene waste. By incorporating recycled feedstock, it retains the lightweight nature, rigidity, and thermal insulation properties of virgin PS while delivering significant environmental benefits.

Designed to advance circular economy practices, WCI RPS Compound reduces plastic waste, lowers environmental footprint, and enables sustainable sourcing. With its balanced formulation, it ensures good processability across injection molding, extrusion, and compounding, making it suitable for a wide range of cost-effective applications.

Product Portfolio – RPS

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI RPS Compound	8–12	1.03	Blend of PCR & PIR, sustainable material sourcing, consistent quality & performance	Packaging (trays, containers, insulation sheets), construction (boards, lightweight concrete, profiles), consumer goods (household, office supplies, toys), industrial blending with virgin PS/HIPS

POLYSTYRENE – PS-ESD

WCI PS-ESD compounds are specially engineered polystyrene grades with electrostatic discharge (ESD) properties, designed to prevent static build-up and safely dissipate charges. These materials retain the core benefits of polystyrene — light weight, rigidity, transparency, or impact resistance depending on the base grade — while delivering controlled surface resistivity in the range of 10^7–10^9 Ω/sq.

WCI offers PS-ESD grades based on different PS families to meet diverse requirements:

- EPS-ESD: Lightweight, foamed, and insulating with added ESD protection.
- GPPS-ESD: Transparent, rigid, and easy to process with dissipative properties.
- HIPS-ESD: Toughened and impact-resistant for functional ESD-safe components.

Together, these grades enable safe, reliable, and cost-effective solutions for electronics packaging, protective housings, and thermoformed trays used in sensitive applications.

Product Portfolio – PS-ESD

Grade	MFR (g/10min)	Density (g/cm³)	Surface Resistivity (Ω/sq)	Tensile Strength (MPa)	Impact Strength	Key Features	Typical Applications
WCI EPS-ESD	25–30	~1.02	10^7–10^9	15–20	Moderate	Lightweight, foamed, insulating with ESD safety	Protective foams & packaging for electronic components & delicate devices
WCI GPPS-ESD	12–15	1.03	10^7–10^9	42	Low	Transparent, rigid, easy to process with anti-static effect	Transparent sheets, housings, injection molded parts with anti-static needs
WCI HIPS-ESD	8–12	1.04	10^7–10^9	25	High	Impact-resistant, toughened, dissipative properties	Thermoformed trays, electronic casings, covers, dissipative packaging

POLYETHYLENE (LDPE & LLDPE)

WCI Polyethylene (PE) Compounds cover a wide portfolio of grades designed for film extrusion, blow molding, injection molding, and compounding applications. These materials deliver a unique combination of flexibility, sealability, toughness, and process stability, supporting converters in industries such as packaging, agriculture, consumer goods, and industrial products.

With more than three decades of experience, WCI ensures each PE grade is optimized for its end-use:

- LDPE Film – for high-clarity, flexible packaging films.
- LDPE Blow Molding – for bottles and hollow containers.
- LDPE Injection Molding – for rigid parts with easy flow.
- LDPE Compounds – cost-efficient blends with recyclability.
- LLDPE – superior tensile strength and puncture resistance.

Customized solutions with UV stabilization, slip/anti-block additives, and color matching are also available.

LDPE – FILM GRADES

WCI LDPE Film Grades are engineered for extrusion of thin and flexible films with excellent clarity, gloss, and toughness. With strong sealability and reliable tensile properties, they are widely used in food packaging, shopping bags, shrink films, and agriculture films.

Grade	MFI (g/10min)	Density (g/cm^3)	Key Features	Typical Applications
WCI LDPE 2100	0.3	0.921	Excellent optical clarity, gloss, toughness, good processability	Packaging films, food wraps, shopping bags, agricultural films
WCI LDPE 0075	0.75	0.920	High dart impact, tensile strength, stiffness, dimensional stability	Shrink films, carrier bags, dust bin liners, industrial packaging

LDPE – BLOW MOLDING

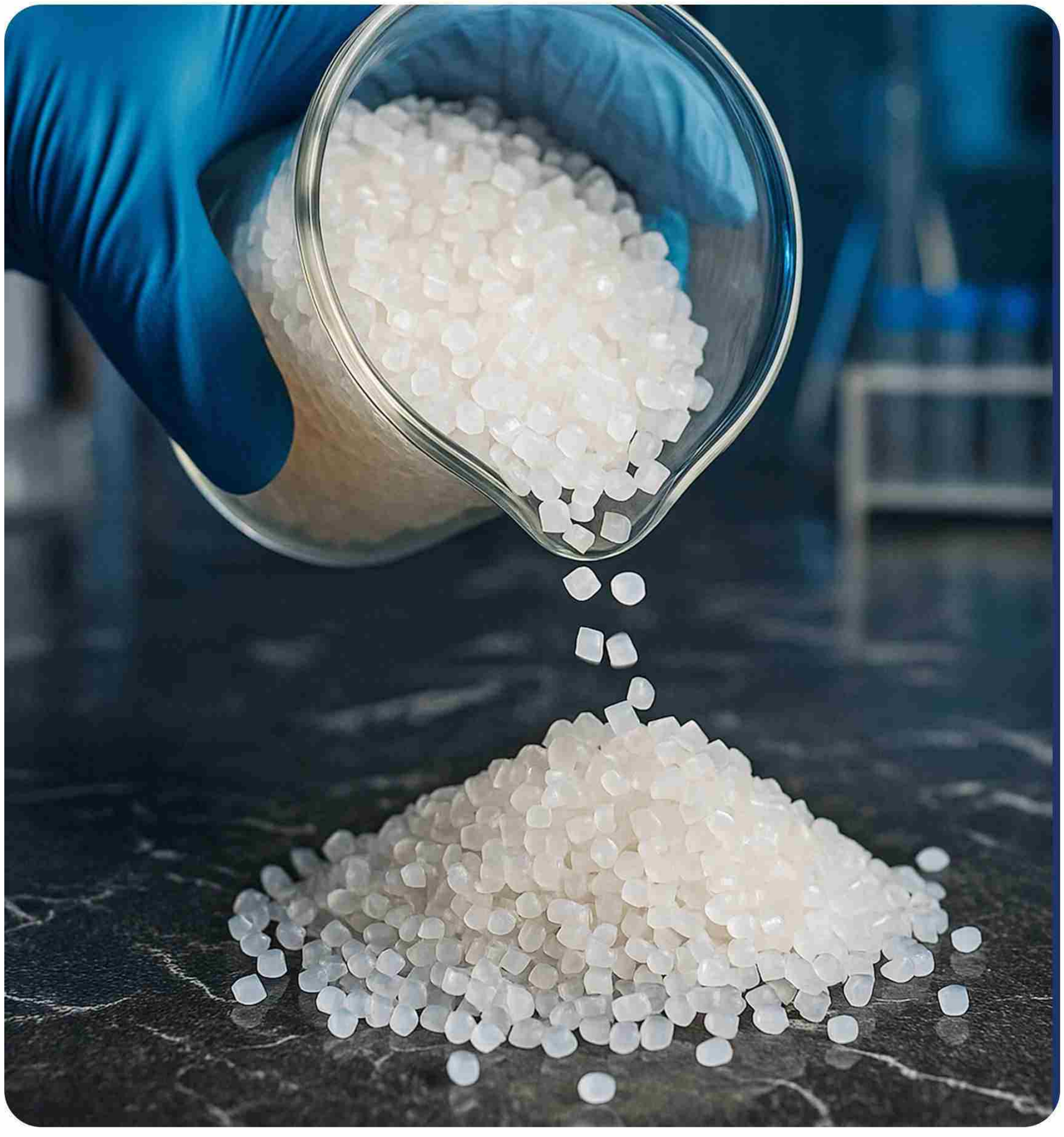
WCI LDPE 2420 offers good melt strength, toughness, and reliable wall-thickness distribution, making it suitable for small bottles, containers, and squeezable packaging. It combines optical quality with durability, ensuring consistent production of hollow products.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI LDPE 2420	1.9	0.924	Balanced toughness, heat sealability, stable processing	Bottles, small containers, squeezable tubes, cast & blown films

LDPE – INJECTION MOLDING

WCI LDPE 1922 is a high-flow injection grade providing short cycle times, excellent moldability, and balanced rigidity/impact. It is widely used for household items, toys, closures, and industrial components where dimensional accuracy and surface finish are critical.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI LDPE 1922	22 (2.16 kg) / 75 (5 kg)	0.919	Easy flow, fast cycle time, good balance of rigidity & impact	Toys, household articles, closures, industrial parts



LDPE – COMPOUNDS

WCI LDPE Compounds are cost-effective blends based on virgin and recycled feedstock, offering good toughness, sealability, and recyclability. They are widely used in general-purpose films, agriculture films, packaging, and consumer products.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI LDPE Compound (Grade 2)	~2–4	~0.920	Flexible, recyclable, balanced properties, easy processing	General-purpose films, shrink & stretch wraps, protective packaging, small bottles
WCI LDPE Compound	~2–5	~0.919	Reliable sealability, chemical resistance, agriculture use	Packaging films, shopping bags, greenhouse & mulch films, irrigation pipes, disposable consumer products

LLDPE

WCI LLDPE 0209 provides superior tensile strength, puncture resistance, and sealing performance compared to conventional LDPE. Its toughness and durability make it a preferred choice for heavy-duty sacks, stretch & shrink films, agricultural films, and food-grade packaging.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI LLDPE 0209	0.9	0.920	High tensile strength, puncture resistance, better sealing	Food packaging, heavy-duty sacks, agricultural films, stretch & shrink films

HIGH DENSITY POLYETHYLENE (HDPE)

WCI HDPE Grades are engineered to meet the requirements of converters across film extrusion, blow molding, injection molding, pipe systems, and rotational molding. With their combination of rigidity, toughness, chemical resistance, and environmental stress-crack resistance (ESCR), WCI HDPE grades are trusted for demanding applications in packaging, infrastructure, agriculture, and industrial products.

Our portfolio covers:

- Film Grades – thin films and sheets with high strength.
- Blow Molding Grades – bottles and hollow containers.
- Injection & Pipe Grades – fittings, pressure pipes, and technical components.
- Rotational Molding Grades – large hollow tanks and containers.

HDPE – FILM GRADES

WCI HDPE Film Grades offer excellent stiffness, tensile strength, and puncture resistance, while maintaining good optical properties and reliable extrusion stability. These grades are widely used in thin packaging films, carrier bags, liners, and industrial films.

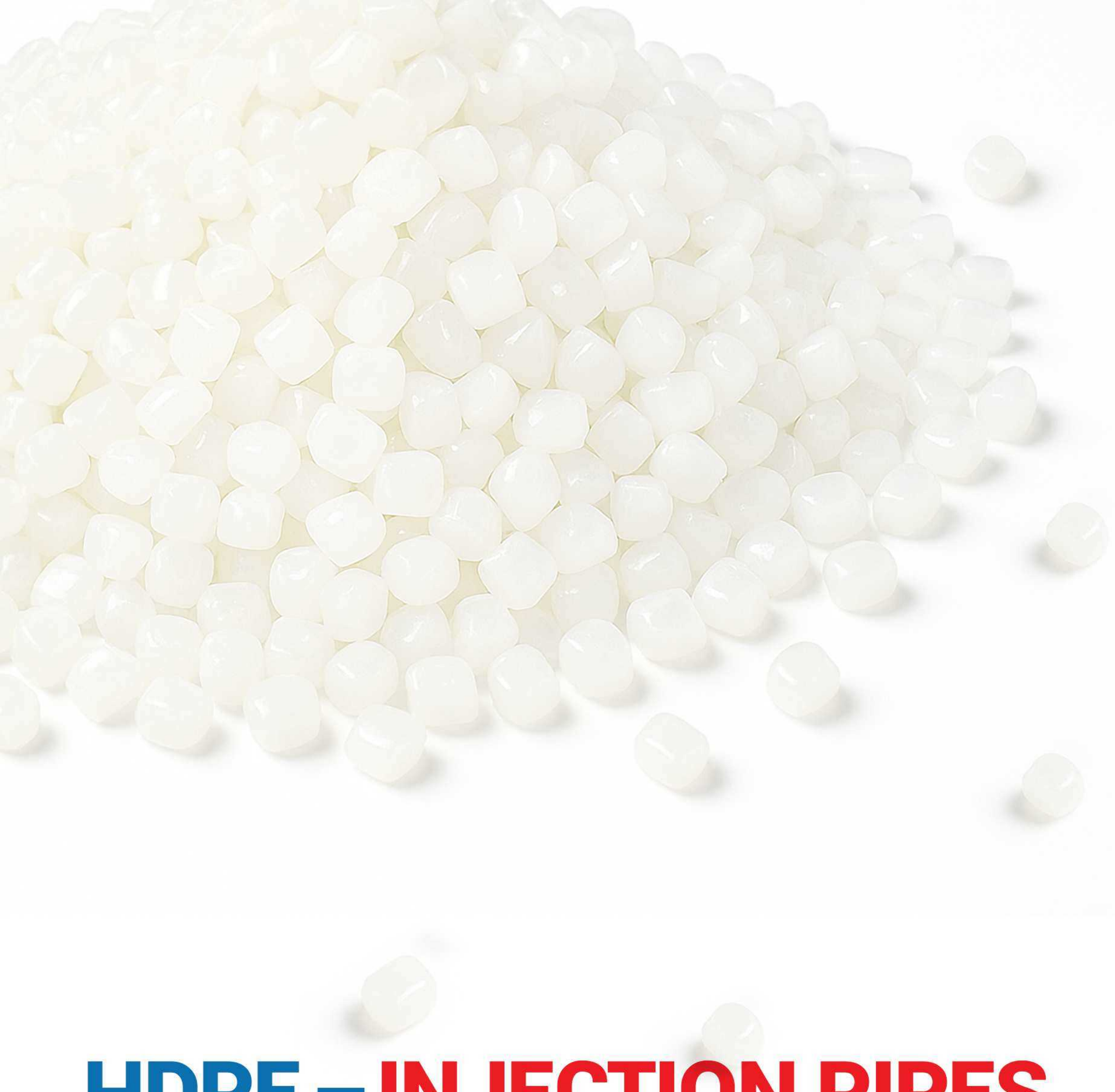
Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI HDPE EX5	0.35	0.951	High stiffness, tensile strength, low haze, balanced processability	Packaging films, shopping bags, industrial liners, sheets
WCI HDPE F7000	0.07	0.920	Excellent toughness, good dart impact, suitable for very thin films	Thin films, food packaging, garbage bags, light carrier bags

HDPE – BLOW MOLDING GRADES

WCI HDPE Blow Molding Grades are optimized for hollow parts with consistent wall distribution, strong impact resistance, and chemical durability. They are used extensively in consumer packaging and industrial containers.

GradeMFI (g/10min) Density (g/cm³) Key Features Typical Applications
WCI HDPE BL3 0.30.954 High ESCR, toughness, stable processing Bottles (detergent, personal care, chemicals), containers up to 5L

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI HDPE BL3	0.3	0.954	High ESCR, toughness, stable processing	Bottles (detergent, personal care, chemicals), containers up to 5L



HDPE – INJECTION PIPES

WCI HDPE Blow Molding Grades are optimized for hollow parts with consistent wall distribution, strong impact resistance, and chemical durability. They are used extensively in consumer packaging and industrial containers.

Grade MFI (g/10min) Density (g/cm³) Key Features Typical Applications

WCI HDPE BL3 0.3 0.954 High ESCR, toughness, stable processing Bottles (detergent, personal care, chemicals), containers up to 5L

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI HDPE EX3	0.3	0.952	PE80 grade, good stiffness & creep resistance, durable under pressure	Pressure pipes, pipe fittings, industrial injection parts

HDPE-ROTATIONAL MOLDING GRADES

WCI HDPE Rotational Molding Grades are designed for large, hollow, and seamless parts requiring impact resistance, chemical stability, and durability. The grades provide uniform wall thickness, smooth surfaces, and long-term performance, even in outdoor and heavy-duty applications.

Grade	MFI (g/10min)	Density (g/cm^3)	Key Features	Typical Applications
WCI HDPE 3840	4.0	0.939	High impact strength, excellent ESCR, stable shrinkage, easy processing	Water & chemical tanks, industrial bins, playground equipment, agricultural containers

POLYETHYLENE – PIPE GRADES

WCI Pipe Grades are engineered for the most demanding infrastructure applications, including water supply, gas distribution, sewage, and heating systems. With superior hydrostatic strength, crack resistance, and chemical durability, WCI's pipe portfolio ensures long-term reliability, safety, and performance in critical networks.

The range covers MDPE for film and packaging layers, PE100 and PE100-RC for high-pressure pipes, and PEX for advanced multilayer and heating systems. Together, these grades provide converters with a full solution for infrastructure, construction, and industrial piping.

MDPE (MEDIUM DENSITY POLYETHYLENE)

WCI MDPE offers a balance of toughness, flexibility, and good sealing properties, making it ideal for film extrusion and medium-strength packaging. Its resistance to tearing and good environmental stress crack resistance (ESCR) ensure reliable performance in multi-layer structures and industrial applications.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI MDPE	0.7–1.0	0.935–0.938	High toughness, good sealability, stress-crack resistance	Strong shopping bags, industrial films, multilayer packaging

PE100 COMPOUND

WCI PE100 is a pressure pipe grade designed for water and gas distribution systems.
It provides high hydrostatic strength, excellent chemical resistance, and long service life, making it the standard choice for global infrastructure projects.

Grade	MFI (g/10min)	Density (g/cm^3)	Key Features	Typical Applications
WCI PE100	0.25	0.949	Excellent hydrostatic strength, durable, long-term reliability	Gas and water pressure pipes, sewage, large tanks, geomembranes

PE100-RC (RESISTANCE TO CRACK)

WCI PE100-RC is an advanced grade with exceptional resistance to slow crack growth (SCG) and rapid crack propagation (RCP). It provides superior durability in harsh environments, ensuring pipe integrity without the need for sand bedding or protective layers.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI PE100-RC	0.3	0.950	Outstanding SCG & RCP resistance, high ESCR, superior toughness	Gas & water pipelines, urban networks, industrial piping in challenging environments

PEX (CROSSLINKED POLYETHYLENE)

WCI PEX 1540 is a grafted polyethylene grade with maleic anhydride functionalization, designed for use in multilayer and hot-water pipe systems. It ensures excellent adhesion in PEX-AL-PEX structures, along with superior chemical and thermal resistance.

Grade	MFI (g/10min)	Density (g/cm^3)	Key Features	Typical Applications
WCI PEX 1540	1.0–1.2	0.940	Maleic anhydride grafted, high adhesion, chemical & heat resistance	Multilayer PEX-AL-PEX pipes, underfloor heating, radiator connections, plumbing & fire-safety systems

POLYPROPYLENE (PP COMPOUNDS)

WCI Polypropylene (PP) grades combine light weight, mechanical strength, and excellent chemical resistance, making them among the most versatile polymers in global markets. PP is widely used in packaging, infrastructure, consumer goods, textiles, automotive, and healthcare, offering tailored properties for every converting technology.

Our portfolio covers both Homopolymer and Copolymer PP, categorized by end-use applications: Injection, Film, Fiber, Random Copolymer, and Impact Copolymer.

PP HOMOPOLYMER – INJECTION MOLDING

WCI PP Homopolymer Injection Grades are designed for rigid packaging, closures, household articles, and technical injection parts. They combine high stiffness, dimensional stability, and fast cycle times, ensuring efficiency for converters and consistent quality for end-users.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI PP H1515M	15	0.90	Excellent stiffness, high clarity, short cycle	Caps & closures, thin-wall packaging, rigid containers
WCI PP H1550J	3.5	0.90	Balanced rigidity & toughness, easy molding	Household articles, crates, technical parts

PP HOMOPOLYMER – FILM

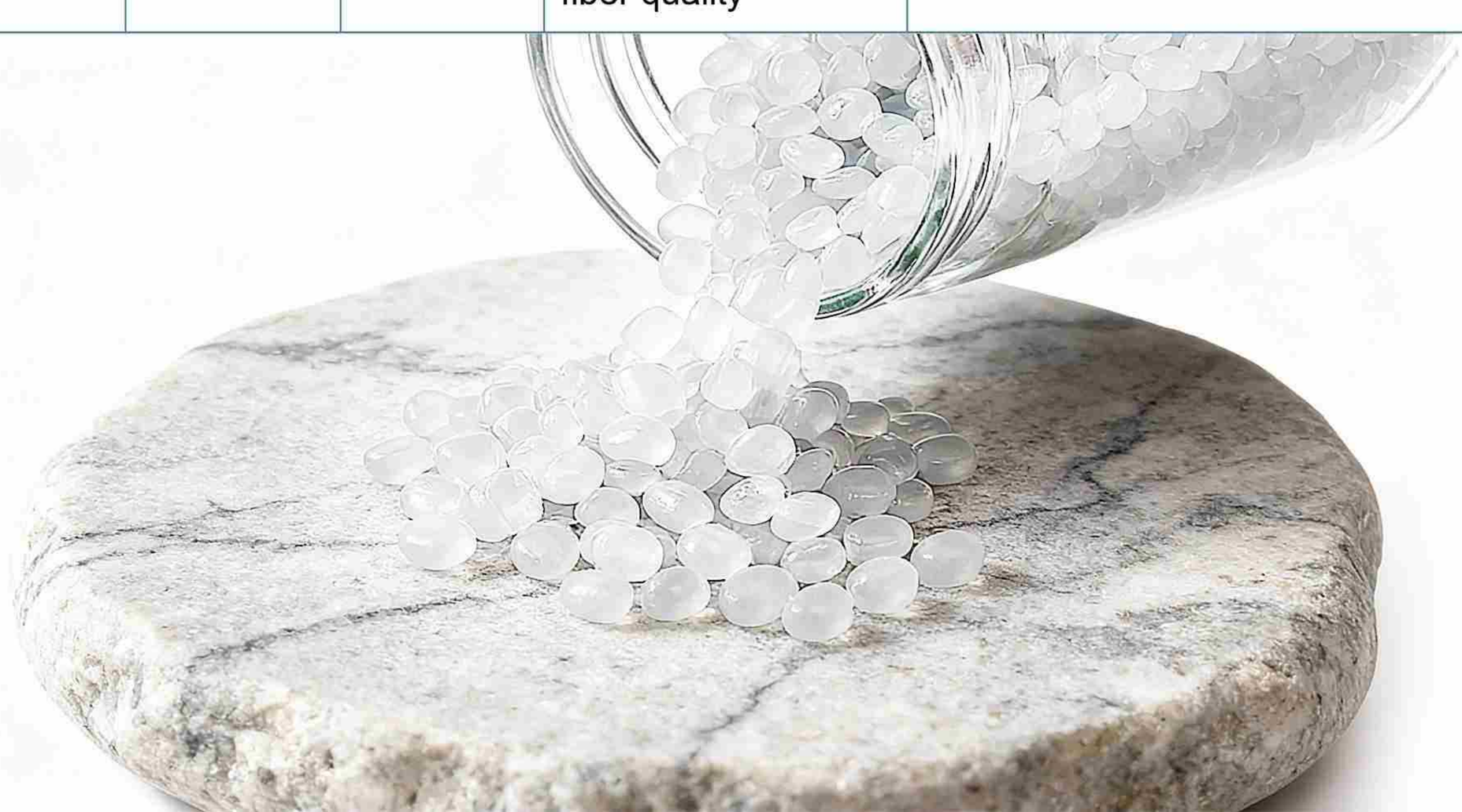
WCI PP Film Grades are used in BOPP, CPP, and cast film processes, delivering clarity, gloss, barrier properties, and sealing performance. They are widely applied in food packaging, industrial films, and labels, offering excellent processability and mechanical balance.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI PP F1100	3.0	0.90	High transparency, good gloss, stable processing	BOPP & CPP films, packaging films, lamination
WCI PP F1200	2.5	0.90	Excellent tensile strength & sealability	Food wraps, labels, multilayer packaging

PP HOMOPOLYMER – FIBER & FILAMENT

WCI PP Fiber Grades offer high tensile strength, uniform spinnability, and durability, making them ideal for raffia, monofilaments, woven sacks, and nonwoven fabrics. With controlled rheology, they ensure stable processing and long-term performance in demanding textile and industrial applications.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI PP R2000	3.5	0.90	Good tensile strength, stable spinnability	Raffia tapes, woven sacks, ropes, monofilaments
WCI PP R2500	2.8	0.90	Balanced toughness, uniform fiber quality	Nonwoven fabrics, geotextiles, industrial fibers



PP COPOLYMER – RANDOM COPOLYMER

WCI PP Random Copolymers provide clarity, flexibility, and toughness, making them suitable for transparent packaging, household products, medical supplies, and hot & cold water pipes. Their optical properties and balanced performance allow them to compete with engineering plastics in specific applications.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI PP R2323C	2.0	0.90	Transparency, toughness, good sealing	Transparent packaging, medical products, hot & cold water pipes
WCI PP R2400	1.8	0.90	Flexibility, clarity, easy processing	Consumer containers, household goods, multilayer piping

PP COPOLYMER – IMPACT COPOLYMER

WCI PP Impact Copolymers deliver superior toughness, impact resistance, and durability, making them the material of choice for automotive, appliances, industrial crates, non-pressure pipes, and outdoor products. These grades perform well even under low-temperature conditions, offering long service life and cost-effectiveness.

Grade	MFI (g/10min)	Density (g/cm³)	Key Features	Typical Applications
WCI PP B3332D	3.0	0.90	High impact strength, reliable processing	Crates, non-pressure pipes, automotive parts, sanitary products
WCI PP B3400	2.5	0.90	Toughness, durability, outdoor stability	Appliances, industrial containers, construction profiles

RECYCLED POLYMER FLAKES

At WCI, sustainability is not an afterthought – it is a core part of our material strategy. Our Recycled Polymer Flakes are produced from carefully selected post-consumer and post-industrial sources, undergoing thorough washing, sorting, and quality screening to guarantee a consistent feedstock with reliable performance. Each batch is designed to support converters who seek to reduce environmental impact while maintaining the technical standards required in demanding applications.

By integrating recycled content into value chains, WCI enables customers to lower their carbon footprint, optimize costs, and comply with evolving sustainability regulations across Europe and global markets.

POLYETHYLENE (PE) FLAKES

WCI Recycled PE Flakes, sourced from controlled LDPE and HDPE waste streams, deliver a stable melt flow, tensile strength, and reliable particle uniformity. These qualities make them particularly suitable for:

- Film extrusion: shopping bags, garbage bags, protective liners
- Blow molding: lightweight bottles and small containers
- Compounding feedstock: blending with virgin PE for technical applications

Our PE flakes are fully traceable and can be tailored to customer requirements, whether for industrial packaging, agricultural films, or general-purpose consumer products. By ensuring compatibility with virgin polyethylene, WCI PE Flakes provide processors with cost-efficient and sustainable alternatives without compromising processing stability.

POLYSTYRENE (PS) FLAKES

WCI Recycled PS Flakes are recovered from post-consumer packaging and industrial sources, carefully cleaned and graded to ensure good rigidity, dimensional stability, and processing consistency. They can be used directly in applications or blended with virgin GPPS and HIPS to optimize performance.

Applications include:

- Thermoformed trays and disposable packaging
- Insulation sheets and lightweight construction profiles
- General-purpose compounding and blending with virgin resins

By offering reliable recyclate quality, WCI PS Flakes empower converters to achieve sustainability targets, cost optimization, and regulatory compliance, while still meeting the high-performance demands of packaging and industrial markets.

APPLICATIONS

Our product families are engineered to address the needs of diverse industries and converting technologies. Each application segment is supported by reliable grades with consistent performance, tailored additives, and flexible color/UV options.

- **Pipes & Infrastructure (PE100 / PE100-RC / MDPE / PEX)**

Designed for long-term reliability in pressure and plumbing systems. PE100-RC grades provide superior resistance to slow crack growth, making them suitable for trenchless and no-sand installations. UV stabilization and customized coloring available per project requirements.

- **Packaging & Thermoforming (GPPS / OPS / HIPS / HDPE)**

High-performance materials for rigid sheets, lids, and trays. Grades provide stable forming, dimensional accuracy, and consistent appearance, making them suitable for food packaging, consumer goods, and industrial applications.

- **Films & Liners (LDPE / LLDPE / HDPE / MDPE)**

Reliable film grades with tuned MFI and customized additives (slip, antiblock, UV) to ensure sealability, puncture resistance, and line stability. Used in food packaging films, garbage bags, carrier bags, shrink/stretch films, and agricultural liners.

- **Consumer & Appliance (HIPS / GPPS / HDPE)**

Tailored for appliance housings, consumer goods, and trims requiring surface quality, mechanical balance, and repeatable processing performance.

- **Electronics Handling (PS-ESD)**

Electrostatic-dissipative grades designed for trays, carriers, and packaging of sensitive electronic components. Target surface resistivity ranges (10□–10□ Ω/sq) can be delivered upon request.

- **Profiles & Technical Sheets (HIPS / GPPS / HDPE)**

Materials engineered for extruded profiles, panels, and technical sheets with controlled rheology, stable thickness, and good surface finish.

- **Foam & Cushioning (EPS)**

Expandable polystyrene beads for protective packaging and insulation. Deliver predictable expansion ratios, stable density, and uniform cell structure for reliable performance.

- **Recycled Content (PE & PS Flakes — Coming Soon)**

Washed and screened flakes offering consistent particle size, QC traceability, and suitability for selected extrusion and injection applications. Designed to support circular economy initiatives.

QUALITY & RELIABILITY

At WCI, quality is not just a standard — it is a commitment. Every material is produced under strict process control and undergoes continuous monitoring to ensure consistency, stability, and dependable performance.

Our technical team applies comprehensive testing protocols for melt flow, density, tensile and impact strength, as well as environmental resistance. This approach guarantees that each delivery meets the reliability expectations of converters and end-users, whether in packaging films, industrial components, or infrastructure applications.

WCI's promise is simple: consistent materials, reliable processing, and long-term performance.

SUSTAINABILITY & CIRCULAR ECONOMY

Sustainability is a cornerstone of WCI's strategy. By integrating recycled feedstock into our product portfolio, we help customers reduce their environmental footprint while preserving processing efficiency and material performance.

Our recycling solutions — including PE and PS flakes — provide cost-effective, traceable, and eco-friendly alternatives for packaging, construction, and consumer goods. In addition, our development of compounds that blend virgin and recycled polymers enables converters to achieve both quality and sustainability goals.

Through continuous innovation and responsible sourcing, WCI is committed to supporting the transition to a circular economy and building a future where performance and sustainability go hand in hand.

REQUEST A QUOTE / CONTACT SALES

For datasheets, trial material, and quotations tailored to your needs, contact:

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