

# SUSTAINABLE and INNOVATIVE SOLUTIONS IN PET RESIN



CARBONATED  
SOFT DRINKS



CUSTOM



HEAT SET



WATER



COSMETICS &  
PERSONAL CARE



EXTRUSION BLOW  
MOLDING



REFILLABLE



PHARMACEUTICALS



CARPET FIBER



THERMOFORM



ALCOHOLIC  
BEVERAGES



DAIRY PRODUCT  
PACKAGING



GENERAL PURPOSE



RECYCLED PET RESIN  
(rPET)



# LASER+® PET Resins INNOVATION BOOSTS PET PRODUCTION ECONOMIES

Light, durable, naturally colorless, and easy to recycle, PET (Polyethylene Terephthalate) has been the go-to material for the world's preform and bottle producers for half a century.

Meeting the growing needs of worldwide bottlers and packaging companies for PET Resin – with a consistent high quality, the best technical expertise and a broad range of sustainable product offerings are the foundations of Alpek Polyester.

For PET Resin, Alpek Polyester leads the way with fast blowing resins sold under its Laser+® brand. Its range meets the current and future needs of high-speed injection systems and filling lines without any fear of preforms suffering from a lack of uniform material distribution.

Laser+® resins reduce potential production losses from being eroded by higher energy costs due to lower drying properties and optimal operating temperatures.

Alpek Polyester is the world's second largest producer of PET and one of the world's largest PET recyclers. It is excited to broaden its global reach with expansion into the Middle East, with the acquisition of the OCTAL® businesses in Oman for PET Resin and Sheet.

Alpek Polyester's bottle-grade PET Resin manufacturing plant in Salalah, Sultanate of Oman is the largest of its type in the Middle East. This facility effectively ships to most countries worldwide and can reach far destinations within 15–25 days.

As a highly respected technology and sustainable packaging specialist, Alpek Polyester's newest facility in Salalah, Oman relies on a unique resin production process that eliminates an entire step from traditional manufacturing.

The faster cycle time and use of 63% less electricity results in a product with a much lower carbon footprint.

It has achieved this reduction in energy consumption without sacrificing any quality, clarity, or consistency. Also, the spherical shape of its resin allows for even heat absorption and eliminates surface dust formation.

Suitable for a wide range of applications, such as hot and cold beverage packaging, food packaging, pharmaceuticals, disinfectants, and also offering a range of *Single Pellet Technology*® (SPT) solutions with up to 25% rPET content.

PET resins from Alpek Polyester offer exceptional performance as well as gloss, clarity, and consistency across all grades. The common industry challenges are addressed via its tireless focus on innovation, safety, and collaboration.







## Laser+<sup>®</sup> PET Resin features and benefits at a glance:

### HIGH SPEED BLOWING/FILLING FOR WATER GRADES:

- Water grades with reheat designed for the beverage industry's high-speed blowing lines
- Reheat additives have minimum impact on color value
- Approved for food contact applications by all major brands
- Tested for line speeds of up to 100,000 BPH
- Enhanced mechanical strength and top load results – even with IV retention properties

### LOW AA & DOWNSTREAM ENERGY SAVINGS:

- Low processing temperatures and superior moulding compatibility
- Enhanced product quality performance that meets regulatory requirements – even at lowest AA level in class
- Lower crystallinity ensures better drying conditions and ultimately lower energy consumption in overall moulding process, including easy formation of intricate shapes during blowing

### OTHER ADVANTAGES:

- Overall moulding condition is easy to process
- Low cycle time due to faster cooling rate
- Fewer fines means trouble free drying in terms of less filter cleaning downtime and better cleanliness on the production floor.
- Lower drying time also means greater energy efficiency
- Reduced downtime due to lower mould deposition and vent blockage. This ultimately leads to more uptime and longer mould life cycles

### SPECIAL GRADES AND WIDE PRODUCT RANGE:

- Heat Set and sheet grades available for specialised products
- Proven product performance at high filling temperatures. The process also benefits from hot fill grades and fast reheat
- Extensive product line with a wide range of grade for applications from carpet grades to refillables for CSD beverages and water.
- Availability of rPET with *Single Pellet Technology*<sup>®</sup> (SPT) meets regulatory requirements
- Strong technical support for customers in terms of process, regulatory/audit requirements.
- Fast response to enquiries and queries optimises customer experience

# WINNING THE RIGHT WAY

At Alpek Polyester our purpose is to provide sustainable packaging solutions to improve people's everyday lives.

Not only are we committed to improving people's lives, but to our mission of delivering better and more responsible solutions to the market that will protect the environment and planet.

This purpose and mission have already achieved significant milestones, including the development of pioneering production processes from which its sustainably built plants make products with the industry's lowest energy input and CO2 emissions per ton of production.

This translates into significant value for customers who benefit from using the lightest weight, highest quality PET packaging with the smallest environmental footprint.

Among the group's global production facilities, Alpek Polyester's bottle-grade PET Resin manufacturing plant in Salalah, Oman has impressive sustainability credentials:



23%

Less on-site thermal energy used.



63%

Less electricity, when compared to traditional PET resin plants.



100%

Of its energy sourced from clean burning gas.



100%

Recycled municipal wastewater used and in doing so creates a green belt around the plant.

## PET RECYCLING OPERATIONS

Alpek Polyester is committed to sustainable product offerings to meet growing customer / consumer demand for recycled PET (rPET) content.



12 Billion

Recycling capacity of over 12 Billion Bottles/Year.



PET  
Circular  
Economy

Leading the way towards a true PET Circular Economy.



Collaborators

Active in associations to strengthen collection, recycling, and policy:

The Recycling Partnership, NAPCOR, PETRA, Petcore, PET Europe, The Association of Plastic Recyclers, Ameripen and the Plastic Industry Association, Sustainable Packaging Coalition, Chemical Industries Association, ABIQUIM, British Plastics Federation, ANIQ, ANIPAC, ABIPET, CIQyP and CIPETAR

# ALPEK POLYESTER GLOBAL PET RESIN GLOBAL BRANDS



**Laser+® CSD**  
CARBONATED CONTAINER PET RESIN

**Laser+® rCSD**  
CARBONATED CONTAINER PET RESIN  
WITH RECYCLED CONTENT



**Laser+® W**  
WATER CONTAINER PET RESIN

**Laser+® rW**  
WATER CONTAINER PET RESIN  
WITH RECYCLED CONTENT



**Laser+® HS**  
HEAT-SET CONTAINER PET RESIN

**Laser+® rHS**  
HEAT-SET CONTAINER PET RESIN  
WITH RECYCLED CONTENT



**Laser+® C**  
CUSTOM CONTAINER PET RESIN

**Laser+® rC**  
CUSTOM CONTAINER PET RESIN  
WITH RECYCLED CONTENT



**Laser+® GP**  
GENERAL PURPOSE PET RESIN

**Laser+® rGP**  
GENERAL PURPOSE PET RESIN  
WITH RECYCLED CONTENT



**Laser+® T**  
THERMOFORM PET RESIN

**Laser+® rT**  
THERMOFORM PET RESIN  
WITH RECYCLED CONTENT



**Laser+® RF**  
REFILLABLE CONTAINER PET RESIN

**Laser+® rRF**  
REFILLABLE CONTAINER PET RESIN  
WITH RECYCLED CONTENT



**Laser+® CF**  
CARPET FIBER PET RESIN

**Laser+® rCF**  
CARPET FIBER PET RESIN  
WITH RECYCLED CONTENT



**Array®**  
SPECIALTY POLYMERS

**Array®**  
SPECIALTY POLYMERS  
WITH RECYCLE CONTENT



**Perpetual®**  
RECYCLED PET RESIN

## CERTIFICATIONS and COMPLIANCE (May differ by Product and Region)

- ISO 9001: 2015
- ISO 45001: 2018
- ISO 14001: 2015
- USA FDA CFR 21 section 177.1630
- CONEG regulations (USA/ Canada)
- Health Canada Regulations
- REACH Regulations
- European Pharmacopoeia EP 3.1.15
- German BFR Recommendation XVII & Dutch Warenwet Chapter I (Plastics)
- EU regulation 10/2011 and amendments
- EC Directive 94/62/EC for heavy metal content
- UK Statutory Instrument 2003 (1941)
- Chinese QS registration
- JHOSPA (Japan Hygienic Olefin & Styrene Plastics Association )
- Approval from Ministry of Health, Sultanate of Oman
- BRC Global Standard for Packaging Materials (Sept 2023-AA Score)
- Food Safety System Certification 22000 Version 5.1

# THE INTEGRATED ALPEK POLYESTER BRAND

Integrated operations create one stronger market-leading organization to maximize value in the global polyester marketplace.



Full alignment with customers' needs



Enhanced competitiveness and superior trade leadership



Market position as the preferred supplier in the polyester marketplace



Maximized business value

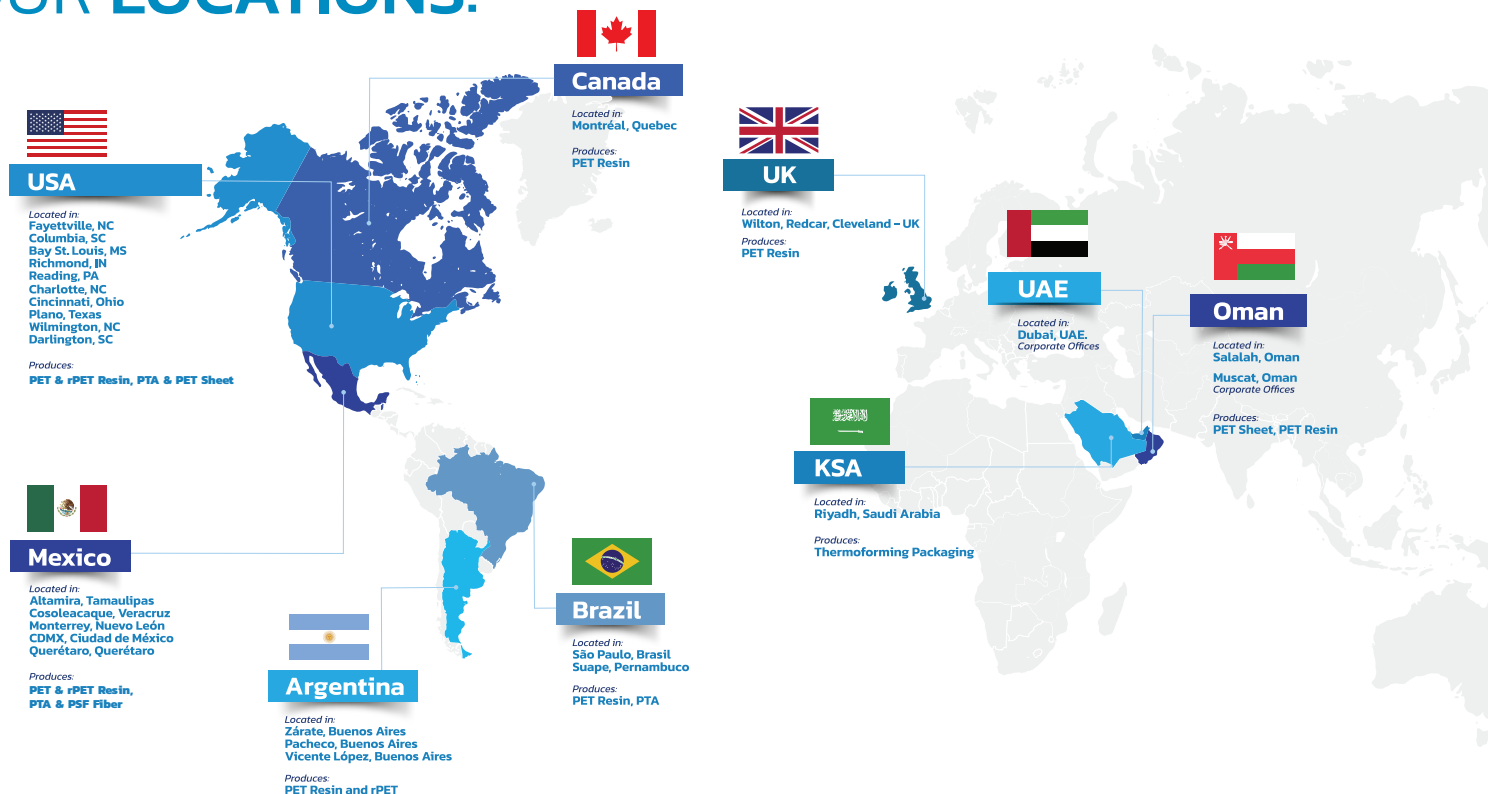


Streamlined decision making



Focused operational excellence

## OUR LOCATIONS:



## CONTACT US

**USA & CANADA:** ResinsInfo.US@AlpekPolyester.com | +1 888 738 -2002

**MEXICO:** InfoResinas.MX@AlpekPolyester.com | +52 (55) 3000 -5760

**ARGENTINA:** InfoResinas.AR@AlpekPolyester.com | +54 (11) 5297 -0800

**BRAZIL:** ResinsInfo.BR@AlpekPolyester.com | +55 (81) 3343 -5225

**UK:** ResinsInfo.UK@AlpekPolyester.com | +44 -164 -245-1000

**OMAN:** ResinsInfo.OM@AlpekPolyester.com | +971 4388 2113

**WWW.ALPEKPOLYESTER.COM**