

PolyVolve™

OFFERED BY **KOCH**
TECHNOLOGY SOLUTIONS



POLYMETRIX
a Sanlian Bahier Company

The NEXT EVOLUTION in Polyester Technology

Unlock the potential of polyester production with our cutting-edge continuous polymerization technology.

Join us at the forefront of innovation, driven by a partnership between Koch Technology Solutions, Chemtex Global Corporation, and Polymetrix AG.

The Evolution of Technology

Using our 50 years of knowhow we have evolved to make our 3-vessel CP technology even better. Raw materials, including recycle feedstocks, first react in a thermo-syphon reactor before passing to state-of-the-art pre-polymerizer and finisher reactor to produce market leading PET resin, fiber & film suitable for the most demanding applications.

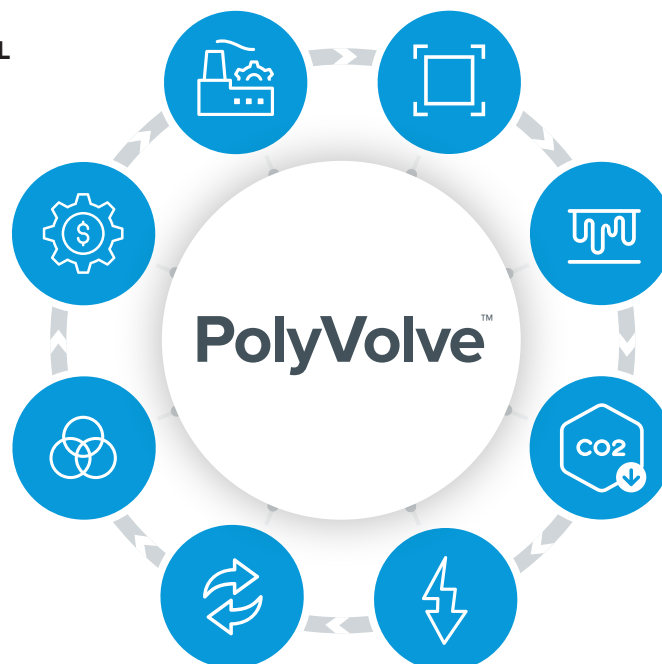
To meet final product specification, we work with our customers to meet the local and global demands, be that spherical or cylindrical pellet, or a range of fiber grades. Our nitrogen based SSP technology ensures optimum aesthetics, product clarity and low VOCs.

**15% IMPROVEMENT IN ISBL
CAPITAL PRODUCTIVITY**

**17% REDUCTION IN
OPERATING COSTS**

**SIGNIFICANTLY
IMPROVED
PRODUCT COLOUR**

**NEW METHODS
FOR RECYCLE STREAM
INTEGRATION – SUPERIOR
RPET PRODUCT**



**20% REDUCTION IN
PROCESS BUILDING AREA**

**INDUSTRY LEADING
SINGLE MELT CAPACITY
2,200 TPD PET RESIN
1,300 TPD TEXTILE**

**16% REDUCED
CARBON EMISSION**

**9% REDUCTION IN
ENERGY CONSUMPTION
PER TON OF PRODUCT**

WHY CHOOSE US?



Unmatched scale & expertise



High capital Efficiency



Low energy consumption



High reliability



Superior product quality



Deep knowledge of Polyester chemistry, plant design, & operation



Proven track record of global execution across five decades



These factors help you de-risk your investment in polyester

Polyester Licensing Dashboard

230+

Polyester Projects
in 50 years

3.00 MILLION TONS

Capacity under construction

29+ MILLION tons
of licensed capacity

12+ MILLION PET

17+ MILLION Textile

GLOBAL PROJECT EXPERIENCE

Americas, MENA,
Europe, Asia

10 PLANTS

Commissioned in the
past five years

40% of Operating
Global PET Capacity is
Chemtex - Koch Technology
Solutions supplied

2,200 TPD

Largest Single Line CP - Superior OPEX and Capital
Productivity Reliability, Flexibility, Long Term Client Satisfaction

Key benefits for you

- **Global Acceptance:** Trusted across the Americas, Asia, and EMEA—ensuring reliability and performance worldwide.
- **Optimized Efficiency:** Industry-leading capital efficiency and operating cost savings, delivering rapid returns on investment.
- **Precise Control:** Achieve consistent quality with precise Intrinsic Viscosity (IV) control tailored to your needs.
- **Superior Aesthetics:** Maintain impeccable polymer color integrity, meeting the highest industry standards.
- **Innovative Recycling:** Pioneering patented technologies for recycled PET, supporting sustainability goals.

Integrated solutions for tomorrow

Explore integrated PTA-PET solutions optimizing technology interfaces. Benefit from streamlined operations, comprehensive training, and ongoing support for peak efficiency.

MULTIPLE PROJECTS FOR MAJOR COMPANIES

Reliance
32 projects

Xin Fengmin
20 projects

Sanfangxiang
14 projects

Indorama
12 projects

SASA
6 projects

Tongkun
6 projects

Far Eastern
6 projects

**JOIN THE EVOLUTION
CONTACT US TODAY**

Explore our advanced polymerization technology and tailored solutions that drive efficiency, sustainability, and operational excellence. Transform your polyester production capabilities with us.