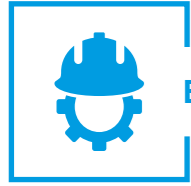




TECHNOLOGY LICENSING

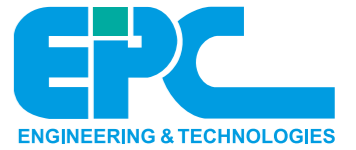


ENGINEERING SERVICES



PLANT CONSTRUCTION

IDEAS INSIDE ^{EPC}



Polyamide Copolymer Technology

For diversification of polymer product portfolio



CONTACT

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Plant expansion to adapt to changing market requirements

EPC Group looks back on many successful years of experience in the polymer industry and provides innovative technology solutions for the production of high quality polyamides - PA6 / PA6.6.

The global market is ever changing and new and innovative polyamide products are always in demand.

EPC offers a complete technological and engineering package for new-build polymer projects. We also offer technology and know-how for the modification of existing polyamide production plants to enable the production of Polyamide Copolymer.



EPC Group is certified per DIN EN ISO 9001

IDEAS INSIDE ^{EPC}



Copolymer Production

Modification of Polymer Plants to produce Copolymers

The global market is continually evolving and the demand for new high-performance polymers is driving innovation within the polymer industry.

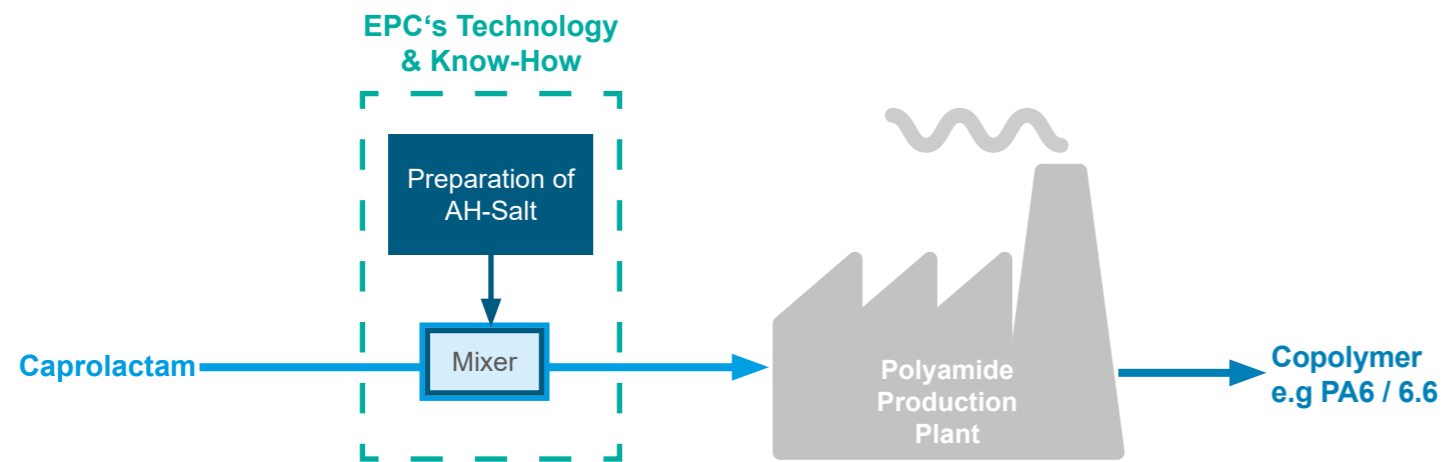
Producers of commodity polymers (such as polyamide) can benefit by expanding their existing product portfolio to include new innovative products such as copolymers.

Copolymerization of polyamide can produce copolymers with high-performance parameters to achieve the key characteristics that your specific product application demands, e.g. thermal resistance, glass temperature, permeability, melting temperature, abrasion resistance etc. Copolymers are synthesized by polymerization of two or more repeating monomer structures.

EPC Engineering & Technologies GmbH has vast experience and expertise in revamping and modifying existing polymer production plants. We offer technology and know-how for the modification of existing polyamide production plants to enable the production of Polyamide Copolymer.

An example of Polyamide Copolymer is PA6/PA6.6 which is produced by the co-polymerization of Caprolactam and Nylon Salt. This copolymer is in growing demand for many applications requiring high viscosity, food contact acceptability, good processability or low slip properties.

EXAMPLE: MODIFICATION OF A POLYAMIDE PRODUCTION PLANT TO PRODUCE PA6/PA6.6 COPOLYMER



Multiple copolymer production combinations are possible:
e.g. PA 5 / PA6 / PA6.6 / PA12

Advantages of EPC's Technology

For modification of existing polyamide plants to produce Copolymer:

- ✓ Experienced In-house polymer experts
- ✓ Tailor-made process solutions to produce selected co-polymer products
- ✓ Smooth project integration with existing operational production plants
- ✓ Optimized raw material and utility consumption
- ✓ Reliable and efficient plant design - low maintenance

Selected Polyamide Reference Projects

Belgium

Antwerp | 2017

Expansion of a polyamide plant



Thailand

Rayong | 2008 - 2010

Installation of a PA6 extraction system



Germany

Rudolstadt | 2005 - 2006

Revamping of an existing PA6 extraction



Germany

Rudolstadt | 1996 - 2001

Revamping of polyamide plants



Our Services:

- ✓ Technology Licensing
- ✓ Process Design Package
- ✓ Key Equipment Delivery
- ✓ Training & Technical Assistance
- ✓ Supervision of Installation
- ✓ Supervision of Commissioning & Start-Up



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