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.

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.

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

Plant expansion to adapt to changing market requirements
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 polyamide 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.

EPC’s Technology & Know-How

Preparation of AH-Salt

Caprolactam

Mixer

Polyamide Production Plant

Copolymer e.g PA6 / 6.6

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

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

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

Advantages of EPC’s Technology

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

CONTACT

Karol Kerrane
Business Development Director
Phone: +49 3628 66048 - 29 00
Email: karol.kerrane@epc.com