

Univation Technologies

PE Opportunities Start Here

Nearly 100 reactor lines in use in 25 countries produce more than 18 million tonnes of PE annually (mta) using the UNIPOL™ PE Process. There are several reactor lines, currently in design or construction.

The UNIPOL™ PE Process can produce a wide range of commercial products. Whether your goal is to make high-density, medium-density or low-density PE, the UNIPOL™ PE Process can accommodate. Its wide range of densities and melt indices – with both narrow and broad molecular weight distributions – are the key to resin differentiation.

Companies interested in the high-density or low-density market and the ability to switch between LLDPE and HDPE choose the UNIPOL™ PE Process more than any other.



	LLDPE	MDPE	HDPE
Narrow MWD (UCAT™ A, J)	Film Injection Molding Extrusion Coating	Rotational Molding	Injection Molding Monofilament Stretch Tape
Narrow MWD (XCAT™ HP, XCAT EZ)	Film Extrusion Coating		
Medium MWD (UCAT B)	Hose & Tubing Blow Molding		Blow Molding Pipe Sheet
Broad MWD (UCAT G)		Pipe Medium-Density Film Geomembrane	Pipe HD Film Large Part Blow Molding
Broad MWD (PRODIGY™)		Bimodal MD Film Bimodal MD Pipe	Bimodal HD Film Bimodal HD Pipe Bimodal Blow Molding

One reason for the success of the UNIPOL™ PE Process is its simplicity. Supported by key technology patents, trade secrets and know how, the UNIPOL™ PE Process requires just three pieces of major rotating equipment: a cycle gas compressor, a vent recovery compressor and a pelleting system. Regardless of the catalyst used, the same facilities are used to produce PE products.

[View our interactive UNIPOL™ Process diagram.](http://www.univation.com/unipol.animation.html) (http://www.univation.com/unipol.animation.html)

Other technology advantages include a system that feeds resin directly from degassing to pelleting, eliminating the need for intermediate storage and reducing capital and operating costs. UNIPOL™ PE Process capital costs are up to 35% lower than with other processes. Operating expenses can be up to 10% lower with the UNIPOL™ PE Process.

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