



Shell Polymers

OVERVIEW

Nexeo Plastics is proud to be an authorized distributor of Shell Polymers, a trusted name in polyethylene innovation. Developed leveraging Shell's experience in materials science, Shell Polymers delivers high-quality polyethylene (PE) solutions designed to meet the demands of various industries, including packaging, industrial applications, and consumer goods.

SHELL POLYMERS OFFERS HDPE AND LLDPE GRADES SUITABLE FOR A RANGE OF APPLICATIONS.

SHELL CAPACITY AND EFFICIENCY

- 2014 Site purchased (Monaca, PA — former Zinc Smelting plant)
- 2017 Major land movement & infrastructure relocation
- 2019 Construction using one of the world's largest cranes
- 2022 Commercial production launched

TECHNOLOGY AND OPERATIONS

- Ethylene Cracker: 7 furnaces converting ethane — ethylene, hydrogen recycled for energy
- PE Production: PE1 LLDPE (Unipol), PE2 HDPE (Unipol), PE3 HDPE (Slurry Loop)
- Energy: 3 gas + 2 steam turbines, off-grid capable

LOCATION ADVANTAGES

- ✓ Within 700 miles of majority of PE demand
- ✓ Shorter supply chains + faster access
- ✓ Near Utica & Marcellus natural gas basin
- ✓ Outside hurricane zone
- ✓ Winter-ready plant design



DID YOU KNOW?

The Shell plant exports power back to the grid, which is enough to power roughly 85,800 homes with electricity. The Ethylene Cracker reaches temperatures of up to 1545°F, and as low as 240°F on the cold side of the unit, thanks to their 300' tall quench tower!



Commercialized Grades				
Segment	Melt/Density	Adds	Typical Applications	Benefits of Choosing Shell
INJECTION MOLDING				
Pail	52N10	10/0.952		Caps & Closures; Containers; Housewares; Sports, Leisure & Toys
	52N7	7/0.952		Containers; Pails
Crate	54N20	20/0.954		Caps & Closures; Containers; Housewares
	65N8	8/0.965		Crates; Pallets/Trays/Tote Bins
	65N8U	8U/0.965	UV	Crates; Pallets/Trays/Tote Bins
	48N5	5/0.948		Containers
BLOW MOLDING				
HIC	55B035	0.35/0.955		household industrial bottles
	55B035A-dev	0.35A-dev/0.955	Anti-Stat	Bottles and Vials
	55B035S-dev	0.35S-dev/0.955	Stearate	Bottles and Vials
Dairy	63B072	0.72/0.963		Dairy containers
	63B072S	0.72S/0.963		Dairy containers
FILM				
Butene	18F1B	1/0.918	barefoot	Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film
	18F1B1	1/0.918	Antiblock	Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film
	18F1B2	2/0.918	Antiblock/Slip	Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film
	18F2B	2B/0.918	barefoot	Bags & Pouches; Can Liners; Colour Concentrates; Film Wrap; Food Packaging Film; Lamination Film; Liner Film; Stretch Wrap Film
	18F3B	3/.919	barefoot	Bags & Pouches; Film Wrap; Food Packaging Film; Lamination Film; Zipper Packaging
CONDUIT/SHEET				
	48P9HL	9/0.948	Bimodal	Conduit/Sheet - 9.0 HLMI, shear-thinning resin made with an advanced chrome catalyst.
JERRYCAN				
	48BG9HL	9/0.948		Gas cans - Broad molecular weight distribution, wider processing window, lower viscosity at high shear rates & good impact resistance and ESCR.

Learn more at nexeoplastics.com/shellpolymers or contact us to request a sample.

Nexeo Plastics
1780 Hughes Landing Blvd
Suite 1000
The Woodlands, TX 77380 USA
nexeoplastics.com

To Place Your Order:
US & Canada: 833.446.3936
getplastics@nexeoplastics.com
Mexico: +52 55 4749 1710
ventas@nexeoplastics.com

For Technical Questions:
US & Canada: 866.430.9666
Mexico: +52 81 1182 5109
techconnect@nexeoplastics.com



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