



## OVERVIEW

Nexo 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  | Excellent stiffness/Impact balance, flow easily, & good overall processibility.                   |
|                       | 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   | Good stiffness to ESCR ratio, toughness, low taste, & order. Good Impact resistance & durability. |
|                       | 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 | Good drawdown, tensile, & toughness.  |
|                       | 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](https://nexeoplastics.com/shellpolymers) or contact us to request a sample.

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