



## 49P024- HIGH-DENSITY POLYETHYLENE RESIN

Shell Polymers HDPE 49P024 is a natural bimodal resin. This product is designed for extrusion of pipe for applications including potable water, natural gas distribution, industrial piping, and mining.

### Product Family

HDPE

### Conversion Process

Pipe Extrusion

### Highlights

- Excellent long-term hydrostatic strength
- Slow crack growth
- Rapid crack propagation properties
- Slurry loop technology

### Additives

Thermal stabilizer



### Technical Expertise

From analytical chemists to polymer scientists and technical experts, our innovation center is home to industry pioneers who can collaborate with you to move your business forward.



### Strategic Transportation Options

As a customer benefit, we have multiple transportation options when you need them—with the ability to move from rail to truck. In fact, our rapid deployment truck loading operation enables trucks to be loaded in 15–20 minutes and prepared for shipment in under an hour directly from our site.



### In-Depth Pipe Studies

In the application testing laboratory, we test specimens and parts made in the application hall, which helps to verify that the resin we manufactured has the required properties. For example: We conduct hydrostatic testing of high-pressure pipe at different temperatures to demonstrate that the pipe grade meets the stringent Plastics Pipe Institute requirements.

### Product Details

Melt Index	Method	Test Conditions
0.24	ASTM D1238 (g/10min)	5 kg/190C
7.0	ASTM D1238 (g/10min)	21.6 kg/190C

Density	Method
0.949	ASTM D792 (g/cm3)