



What is HDPE High Density Polyethylene?

High density polyethylene or HDPE is a commonly used petroleum thermoplastic and is the three most commonly used polyethylene in most three applications. If you look at this plastic under a microscope, you will see that it has a linear structure with a small number of ladders with optimal strength / density ratio. As a result of its molecular structure, this polymer shines best in applications where moisture resistance and cost-effectiveness are required.

General Use for HDPE

1. Plastic bottles: Most people are introduced to durable plastics with unofficial water bottles. HDPE puffing applications are excellent, especially for food and beverage containers because they do not leak into the contents of the bottles. In addition, HDPE is recyclable, making it the perfect choice for disposable products.
2. Toys: HDPE, UV-resistant; in this way, it keeps the toys resistant to the harmful and coloring effects of the rain.
3. Chemical containers: Thanks to its chemical resistance, HDPE is perfect for washing, shampoo, conditioner, household cleaning products, engine oil, anti-freeze and recycling bins. The strength of these bottles increases when they are colored or pigmented.
4. Piping systems: The HDPE pipe grade sheet has a higher molecular weight than the standard HDPE used in the above examples. With UV resistance, this reinforcement is ideal for piping and outdoor applications. The pipe class plate can withstand from -220 to 180 degrees Fahrenheit. It is resistant to many chemical interactions which makes it useful in many industrial applications.



HDPE1



HDPE2



HDPE3



HDPE4