

High Density Polyethylene HDPE Rod

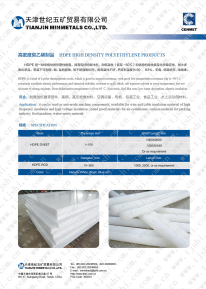
High density polyethylene (HDPE) rods offer a strong, durable, and chemical-resistant solution for various applications. These rods exhibit excellent impact resistance, low moisture absorption, and are easily weldable.



ADDITIONAL IMAGES



Product Overview



Technical overview of HDPE material properties and application areas.

High-Performance HDPE Rods

High Density Polyethylene (HDPE) is a non-polar thermoplastic resin valued for its exceptional impact resistance and chemical stability. It performs reliably in low-temperature environments down to -50°C and provides excellent electrical insulation properties. With a wax-like feel and low water absorption, it is a versatile material suitable for demanding industrial applications ranging from machine components to electrical insulation.

Technical Properties

Heat-Deformation Temperature

60 °C
Min

83 °C
Max

Key Characteristics

Non-toxic • Low Water Absorption • Electrical Insulation • Impact Resistant

Low Temperature Resistance

-50 °C

Chemical Resistance

Acids, Alkalis, Salt Aqueous Solvents

Dimensions and Availability

Standard Dimensions

Dimension	Range/Value
Diameter	10-300 mm
Standard Length	1000 / 2000 mm

Available Colors

- Nature
- White
- Black
- Blue
- Yellow
- Green

Applications

Primary Applications

- Anti-erode machine components
- Wire and cable insulation
- High-frequency and high-voltage insulation
- Soundproof materials for air conditioners
- Cushion material for packing industry
- Food processing machinery
- Water-sports materials