

# HDPE PE 100N

## High Density Polyethylene



### Overview

HDPE PE100N is a bimodal, high molecular weight, high density resin designed for the most demanding requirements of pressure pipe applications. This resin has an excellent balance of physical properties and extrusion processability.

### Applications

- Potable water piping
- Oil and gas gathering and distribution
- Sewer systems
- Mining, chemical and industrial applications

Property	Value	Unit	ASTM
Melt index (condition 230°C/2.16 kg)	0.04	g/10 min	D 1238
Density (g/cm <sup>3</sup> )	0.948	g/cm <sup>3</sup>	D 792
Melt Index HLMI	6.7	g/10min	D1238
Tensile Strength at Yield	> 3500	psi	D638
Elongation at Break	>600	%	D638
Flexural Modulus, 2% Secant	>115000	psi	D790
Flexural Modulus, 1% Secant	> 135000	psi	D790
Pent Slow Crack Growth	> 2000	h	F1473
Thermal Stability Temperature	> 500	°F	D3350
Brittleness Temperature	< -95	°F	D746
Notched Izod Impact @ 23 °C	9.1	ft-lb/in	D256