

Section 1 - General Description

- HDPE100 is a natural bimodal high-density polyethylene copolymer designed for extrusion of potable water, industrial and mining pipe.

Section 2 - Properties

PROPERTY	UNIT	TYPICAL	ASTM
Density	g/10 min	0.949	D4883
Melt Index	g/cm ³	8.5	D1238
Elongation at Yield	%	10.4	D638
Elongation at Break	%	>600	D638
Flexural Modulus (2% Secant)	MPa	900	D790A
Notched Izod Impact Strength	kJ/m ²	63	D256
Tensile Strength at Yield	MPa	24.1	D638
Tensile Strength at Break	MPa	30.3	D638
Hardness Shore D		64	D2240
Vicat Softening Point	C	126	D1525
Brittleness Temperature	C	<-118	D746
ESCR Condition C (100% IGEPAL, F50)	hrs.	>5000	D1693
Hydrostatic Design Basis @ 23 C	MPa	11	D2837
Hydrostatic Design Basis @ 30 C	MPa	6.9	D2837
Notch Tensile (PENT)	MPa	>10000	F1473
Oxidation Induction Time @ 210 C	min	>20	D3895
Thermal Stability	C	>240	D3350
Cell Classification		445576C	D3350
Oxidative Resistance Classification		CC3	D3350
Minimum Required Strength (MRS)	MPa	10.0	ISO 9080