



MARPOL
HDP 510
High Density Polyethylene - HLMI



PRODUCT DATA SHEET

PROPERTY	VALUE	ASTM
Melt Index (190°C/ 2.16kg) (g/10 min)	8.5	D 1238
Density (g/cc)	Natural Black	D 4883
Tensile Strength at Yield, 2 in/min (psi)	3625	D 638
Tensile Strength at Break, 2 in/min (psi)	5500	D 638
Elongation at Break, 2 in/min (%)	600	D 638
Flexural Modulus, 2% Secant (psi)	150000	D 790
Notched Izod Impact Strength (ft-lbf/ in)	9.0	D 256
Hardness (Shore D)	66	D 2240
Brittleness Temperature (°F)	< -180	D 746
Vicat Softening Point (°F)	259	D 1525
Thermal Stability (°F min)	428	D 2513
Hydrostatic Design Basis (psi)	@ 23° C @ 60° C	D 2837
Environmental Stress Crack Resistance, Condition C (hrs)	>5000	D 1693
Carbon Black Concentration (%)	2.3	D 1603

Recommended Applications

Extrusion of potable water, natural gas, industrial, and mining pipe.

MARPOL® HDP 510 is recognized by the Plastic Pipe Institute as having a pipe material designation code of PE 4710 and PE 100.

This information, to our knowledge, is believed to be correct. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer's sole responsibility.

