



UNITED POLY SYSTEMS

W A T E R L I N E

Applications include:

- Municipal and Industrial
- Potable water - NSF
- Sewer Line - AWWA/F714
- Force Main Sewer- AWWA/F714
- Slip Lining/Pipe Bursting
- Etc.



- Product may be striped for different indicators:
 - Blue stripe - Water or Potable
 - Green stripe - Sewer
 - Purple stripe - Reclaim Water
- IPS/DIPS-Gray Pipe with or without stripe also offered for slip lining, pipe bursting, etc. (Gray Pipe Cell Classification 445574E)
- Product is manufactured in IPS (iron pipe size) and DIPS (ductile iron pipe size 4" and up).
- United Poly Systems Pressure Pipe is used in oil and gas piping systems (D2513), industrial & mining, force main sewer (AWWA/F714), potable water (NSF), & landfill.
- The material requirements for PE pressure pipe shall meet or exceed ASTM Standard D 3350 requirements. Materials produced for water application shall meet or exceed ASTM D3035.

PE4710 Typical Physical Properties *nominal values

Property	Typical Value	Units	Test Method
Density with minimum 2% carbon black	.960	g/cc	ASTM D 792 or 1505
High Load Melt Index	8.5	g/10 minutes	ASTM D 1238
Melt Index	0.08	g/10 minutes	ASTM D 1238
Flexural Modulus	110,000<160,000	Psi	ASTM D 790
Tensile Strength @ yield (2 in/min)	3600	Psi	ASTM D 638
Tensile Elongation @ Break	740%	%	ASTM D 638
Thermal expansion	1.0 x 10 ⁻⁴	in/in/°F	ASTM D 696
HDB 73.4° F (23°C)	1600	Psi	ASTM D 2837
HDB 140° F (60°C)	1000	Psi	ASTM D 2837
PENT	>500	Hrs	ASTM F1473
Brittleness Temperature	<-103° F (-75° C)	°F	ASTM D 746
Cell Classification	445574C(black only)		ASTM D 3350

*Nominal values are to be used as guidelines only; this is not a product specification and does not indicate minimum or maximum values.

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