



## DESIGN-FLOW® High Density Polyethylene Gray Slip Liner Pipe PE4710 Nominal Physical Properties\*

Typical Specification	ASTM Test Method	Nominal Values
Density	ASTM D 1505	.959 gm / cm <sup>3</sup>
Melt Index <sup>1</sup>	ASTM D 1238	7.0 gm / 10 min.
<b>Tensile Strength</b>		
@ Yield (2 in/min)	ASTM D 638	3600 psi
@ Break (2 in/min)	ASTM D 638	4500 psi
<b>Hydrostatic Design Basis (HDB)</b>		
@ 23° C (73.4° F)	ASTM D 2837	1600 psi
@ 60° C (140° F)	ASTM D 2837	1000 psi
HDB Design Factor (DF)	PPI TR-4	0.63
Elongation @ Break (2 in/min)	ASTM D 638	>740%
Flexural Modulus <sup>2</sup>	ASTM D 790	150,000 psi
Notched Izod Impact Strength	ASTM D 256	9.0 ft-lbf / in
Hardness (Shore D)	ASTM D 2240	68
Brittleness Temperature	ASTM D 746	< -103 °F
Slow Crack Growth PENT, hours	ASTM D1473	>10,000 hrs
Cell Classification	ASTM D 3350	445574E
Vicat Softening Point	ASTM D 1525	257 °F

**Design-Flow**® High Density Polyethylene Slip Liner Pipe is manufactured in a standard color of light gray. Black slip liner can be produced by special request. Product is available in all standard sizes and SDR's as listed on the **Design-Flow**® HDPE Pipe Size Charts.

**Notes:** <sup>1</sup> 190° C / 21,600 g; <sup>2</sup> 2% Secant - Method 1

\*This list of typical physical properties is intended for basic characterization of the material and does not represent specific determinations of specifications. The physical properties values reported herein were determined on compression molded specimens prepared in accordance with procedure C of ASTM D 4703 and may differ from specimens taken from pipe.