



PHYSICAL PROPERTIES

KING PIPE GRADE

BLACK PE 4710 HIGH DENSITY POLYETHYLENE

Tolerances

Gauges	Both width and length
1/8" - 3/4" +/- 5% 1" - 1-1/2" -5% +10% 1-3/4" AND OVER +ONLY	Plus Only

Property	Units	ASTM	Nominal Value*
Density	g/cc	D1505	.961
Tensile Strength @ Yield	p.s.i.	D638	>3630
Tensile Strength @ Break	p.s.i.	D638	>5510
Elongation @ Break	%	D638	>600
Flexural Modulus	p.s.i.	D790	150,000
Durometer	Shore D	D2240	69
Izod Impact Notched	ft.lbs./in.	D256	9.18
Brittleness Temp.	°C	D746	<-82
Vicat Softening Temp.	°C	D1525	126
Heat Deflection Temp. 66PSI	°C	D648	80
Co-efficient of Linear Ther- mal Expansion	in./in./°F	D696	1.4x10 ⁻⁴
ESCR	hours	D1693(C)	>5000
Notched Tensile (PENT)	hours	F1473	>10,000

Complies with the Plastic Pipe Institute PE4710 classification. ASTM D-3350 classified as Grade PE-445574 C. NSF approved for standard 14 and complies with ANSI/NSF standard 61 for health effect requirements.

*All values are determined on specimens prepared according to ASTM testing procedures (if applicable). Nominal values should not be interpreted as specifications.



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