For more information and technical assistance contact:

Performance Pipe, a division of
Chevron Phillips Chemical Company LP
P.O. Box 269006
Plano, TX 75026-9006
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Yellowstripe® 8300 Series PE4710-PE100 / (PE3408) Pipe

Pipe Data Sheet

Typical material Physical Properties of Yellowstripe® 8300 series PE4710-PE100 / (PE3408)

High Density Polyethylene Materials

Property	Unit	Test Procedure	Typical Value
Material Designation	---	PPI-TR4	PE4710[1] PE100
Cell Classification	---	ASTM D3350	445574C 445576C
Pipe Properties			
Density	gms / cm^3	ASTM D1505	0.961 (black)
Melt Index (HLMI) Condition 190 / 21.6	gms/10min	ASTM D1238	8.0
Hydrostatic Design Basis, 73°F (23°C)	psi	ASTM D2837	1,600
Hydrostatic Design Basis, 140°F (60°C)	psi	ASTM D2837	1,000
Minimum Required Strength	Mpa (psi)	ISO 9080	>10 (>145)
Rapid Crack Propagation Critical Pressure(Pc), 0°C(32°F)[2]	Bar (psi)	ISO 13477	>12bar (>174) psi
Pipe Test Category	---	ASTM D2513	CEE
Material Properties			
Flexural Modulus at 2% strain	psi	ASTM D790	>150,000
Tensile Strength @ Yield (Type IV)	psi	ASTM D638	>3,500
Elongation at Break 2 in / min., Type IV Bar	%	ASTM D638	>800
Elastic Modulus @ Secant 2% strain (2in/min., type IV bar)	psi	ASTM D638	>200,000
Hardness	Shore D	ASTM D2240	65
PENT	hrs	ASTM F1473	>5000
Thermal Properties			
Vicat Softening Temperature	°F	ASTM D1525	255
Brittleness Temperature	°F	ASTM D746	-180
Thermal Expansion	in / in / °F	ASTM D696	1.0×10^{-4}

Another quality product from Chevron Phillips Chemical Company LP The Woodlands, Texas

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1. Meets new requirements for PE4710 materials and use of increased design factors. 49CFR Part 192 references older versions of the PPI document that do not yet recognize the new requirements and carry the PE3408 designation.
2. Determination made using Small-Scale Steady state. Pc calculated in accordance with ISO 13477.

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