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**WEHOGAS
PHYSICAL PROPERTIES OF
CSA B137.4 GAS PIPE**

TECHNICAL BULLETIN

**Typical Physical Properties¹ of Infra Pipe Solutions PE4710 Pipe materials
for CSA B137.4 applications**

Infra Pipe Solutions High Density Polyethylene (HDPE) PE4710 gas pipe is manufactured from pressure rated black polyethylene compounds that meet or exceeds CSA B137.4 requirements.

The PE4710 bimodal materials conform to ASTM D3350 with a minimum cell classification of 445574C. The materials are listed with a Plastic Pipe Institute's TR-4.

Property	Typical Value	Test Method
Density		
Natural	0.9485-0.949 g/cm ³	ASTM D1505
Black	0.959 g/cm ³	
High Load Melt Index ²	5.5-8.5 g/10 min	ASTM D1238
Tensile Strength		
Yield	>3500 psi	ASTM D638
Break	>5100 psi	ASTM D638
Elongation		
Break	>600 %	ASTM D638
Flexural Modulus	110,000 psi ≤ 160,000 psi	ASTM D790
Brittleness Temperature	<-103 °F	ASTM D746
Hydrostatic Design Basis		ASTM D2837
73°F(23°C)	1600 psi	ASTM D2837
140°F(60°C)	1000 psi	ASTM D2837
Thermal Stability	>464 °F	ISO 12162
Notch Tensile (PENT)	>5000 hrs.	ASTM F1473
	Meet minimum CSA B137.4 requirements of 2000 hrs.	
RCP, Critical Pressure at 32°F (0°C)	>147 psi	ISO 13477
Color, UV Stabilizer	Minimum 2% of carbon black	ASTM D3350
Chemical Resistance	Meet requirements of CSA B137.4	CSA B137.4

¹ Typical properties will vary within specification limits. Contact Infra Pipe Solutions Customer Service for availability. This data sheet may be changed from time to time without notice.

² 190°C/21,600g

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