



4.5" 180°F Thermoflex® Plus RT Gathering Line (Crude Oil, Water, Brine, Gas, CO₂, H₂S & Condensate)

Measures	Units	Values			
Normal Size	inch	4.5" (114.3mm)			
Pipe Construction Materials	Liner	PPS			
	Backer	RT-HDPE			
	Reinforcement	Aramid Fiber			
	Cover	HDPE			
Outside Diameter	inch (mm)	4.55" (115.6mm)			
Inside Diameter	inch (mm)	3.83" (97.3mm)			
Maximum Continuous Operating Pressure	psi	275	500	750	1,000
	MPa	1.90	3.45	5.17	6.90
Maximum Operating Temperature	(°F)	180			
	(°C)	82.2			
Weight	lbf/ft	2.09	2.12	2.15	2.19
	kg/m	3.11	3.15	3.20	3.26
Length per reel	ft	2,100	1,700	2,100	1,600
	m	640	518	640	488
Reel Weight - Full	lbs	5,386	4,599	5,525	4,505
	kg	2,443	2,086	2,506	2,043
Reel Weight - Empty	lbs	1,000			
	kg	454			
Reel Size	ft	12.00			
	m	3.66			
Inside Diameter of Reel	ft	9.00	9.00	9.00	9.00
	m	2.74	2.74	2.74	2.74
Minimum Bend Radius (Operational)	ft	7.58			
	m	2.31			
Maximum Tensile Load	lbs	6,837	13,701	21,436	29,363
	kN	30.40	60.90	95.30	130.50
Thermal Expansion Coefficient	in/in °F(10 ⁻⁵)	2.40	1.30	0.80	0.53
	m/m °C(10 ⁻⁵)	4.32	2.34	1.44	0.95
OHTC @ ID	Btu/ ft ² hr °F	6.63			
	W/m ² K	37.65			
Flow Coefficient (Relative Roughness)	inch/inch	1.57E-05			
	mm/mm	1.57E-05			
Derating Factors (Cyclic Load, Temp. Fluid)		none	none	none	none
Hazen-Williams Number		150			

Not intended for specification purposes. Data shown are approximate nominal values. Some variations in product dimensions and weight are to be expected. Other pressure and temperature ratings are available upon request.

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