



# 4.0" 180°F Thermoflex® RT Gathering Line

(Crude Oil, Water, Brine, Gas, CO<sub>2</sub>, H<sub>2</sub>S & Condensate)

Measures	Units	Values				
Normal Size	inch	4" (101.6mm)				
Pipe Construction Materials	Liner	PA12				
	Backer	RT-HDPE				
	Reinforcement	Aramid Fiber				
	Cover	HDPE				
Outside Diameter	inch (mm)	4.04" (102.6mm)				
Inside Diameter	inch (mm)	3.36" (85.3mm)				
Maximum Continuous Operating Pressure	psi	275	500	750	1,000	1,500
	MPa	1.90	3.45	5.17	6.90	10.34
Maximum Operating Temperature	(°F)	180				
	(°C)	82.2				
Weight	lbf/ft	1.67	1.69	1.72	1.75	1.77
	kg/m	2.49	2.52	2.56	2.60	2.63
Length per reel	ft	2,900	2,100	2,800	2,100	1,750
	m	884	640	853	640	533
Reel Weight - Full	lbs	5,843	4,558	5,818	4,671	4,104
	kg	2,651	2,068	2,639	2,119	1,862
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	9.67
	m	2.74	2.74	2.74	2.74	2.95
Minimum Bend Radius (Operational)	ft	6.73				
	m	2.05				
Maximum Tensile Load	lbs	5,797	11,593	16,248	23,021	32,648
	kN	25.80	51.50	72.20	102.30	145.10
Thermal Expansion Coefficient	in/in °F(10 <sup>-5</sup> )	3.06	1.64	1.15	0.76	0.47
	m/m °C(10 <sup>-5</sup> )	5.51	2.95	2.07	1.37	0.85
OHTC @ ID	Btu/ ft <sup>2</sup> hr °F	7.14				
	W/m <sup>2</sup> K	40.55				
Flow Coefficient (Relative Roughness)	inch/inch	1.79E-05				
	mm/mm	1.79E-05				
Derating Factors (Cyclic Load, Temp. Fluid)		none	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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