



4.5" 180°F Thermoflex® 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	PA12			
	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	2.00	2.03	2.07	2.10
	kg/m	2.98	3.02	3.08	3.13
Length per reel	ft	2,100	1,700	2,100	1,600
	m	640	518	640	488
Reel Weight - Full	lbs	5,206	4,453	5,345	4,367
	kg	2,361	2,020	2,424	1,981
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)	3.05	1.64	1.01	0.69
	m/m °C(10 ⁻⁵)	5.49	2.95	1.82	1.24
OHTC @ ID	Btu/ ft ² hr °F	6.49			
	W/m ² K	36.85			
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.

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users should conduct their own tests to determine the suitability of each product for their particular purposes. Data in the physical property table represents typical values and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions and may vary from the results you obtain. Right to change physical properties as a result of technical progress is reserved. THE PRODUCTS DISCUSSED ARE SOLD WITHOUT WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EITHER EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN OUR STANDARD TERMS AND CONDITIONS OF SALE. Buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Consult local code and regulatory agencies for specific requirements regarding code compliance, transporting, processing, recycling and disposal of our product. The information supersedes all previously published data. Latest REV: 11/29/2016