

FORM NO. 161-GT SPECIFICATIONS
PRICES ARE LISTED ON FORM MLP-1
PLEASE ORDER BY PART NUMBER.

JANUARY, 2010



GT 160 DR-11 PE 3408 / 3608 ASTM D-3035 20' LENGTHS	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	STRAIGHT LENGTHS	PART NO.
	3/4"	1.050	.095	12.41	20	18700
	1	1.315	.120	19.62	20	18735
	1 1/4	1.660	.151	31.21	20	18790
	2	2.375	.216	63.90	20	18820

GT 160 DR-11 PE 3408 / 3608 ASTM D-3035 COILS	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	COILS	PART NO.
	3/4"	1.050	0.095	12.41	600	18950
					700	18953
					800	18956
					900	18959
	1 1/4	1.660	.151	31.21	100	18961
					300	18963
					500	18965

GT 160 DR-11 PE 3408 / 3608 ASTM D-3035 COILS WITH UBEND	SIZE	O.D.	MIN. WALL	WEIGHT PER 100'	COILS WITH UBEND	PART NO.
	3/4"	1.050	.095	12.41	105	18704
					155	18710
					180	18715
					205	18720
					255	18725
	1	1.315	.120	19.62	205	18740
					255	18750
					305	18760
					355	18770
					405	18780
	1 1/4	1.660	.151	31.21	205	18795
					305	18784
					405	18787

CRESLINE GT POLYETHYLENE FLEXIBLE PIPE IS PRODUCED FROM HD PE 3408 / 3608 MATERIAL AND IS DESIGNED FOR USE IN SOCKET OR BUTT FUSION APPLICATIONS.

CRESLINE PLASTIC PIPE CO., INC.

600 Cross Pointe Blvd.
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CRESLINE GEOTHERMAL PIPE CONFORMS TO:
PE 3408 / 3608

ASTM:D 3035-STANDARD SPECIFICATION FOR POLYETHYLENE (PE) PLASTIC PIPE (DR) BASED ON CONTROLLED OUTSIDE DIAMETER.
ASTM:D 3350-STANDARD SPECIFICATION FOR POLYETHYLENE PLASTIC PIPE AND FITTING MATERIALS.

MINIMUM FLOW IN PIPE FOR TURBULENCE (GPM)					PIPE THERMAL RESISTANCE VALUES	VOLUME PER 100' OF PIPE
NOMINAL PIPE SIZE (PIPE ID)	WATER AT 40° F	20% CALCIUM CHLORIDE AT 25° F	20% PROPYLENE GLYCOL AT 25° F	20% METHANOL AT 25° F	PIPE RESISTANCE HR-FT-F/BTU	GALLONS
3/4" (0.086)	1.1	2.3	3.4	2.4	.141	2.94
1" (1.075)	1.3	2.9	4.4	3.1	.141	4.59
1 1/4" (1.358)	1.7	3.6	5.5	3.9	.141	7.32
2" (1.943)	2.4	5.2	7.9	5.5	.141	14.99

PIPING FEET OF HEAD LOSS AT DIFFERENT FLOW RATES PER 100 FEET											
PE 3408 / 3608 DR-11		G.P.M. FLOW RATE									
SIZE	I.D.	1	2	3	4	5	6	8	10	12	14
3/4"	(0.086)	.2	1.03	2.07	3.41	5.03	*	*	*	*	*
1"	(1.075)	.07	.36	.71	1.18	1.73	2.38	3.92	*	*	*
1 1/4"	(1.358)	*	.12	.24	.39	.58	.79	1.31	1.93	2.65	3.47
2"	(1.943)	*	*	*	.07	.11	.15	.24	.35	.48	.63

THESE HEAD LOSSES ARE FOR WATER AT 40° F TEMPERATURE
COUNT EACH ELBOW, TEE, REDUCER, AIR SCOOP, FLOW METER, ETC., AS 3 FEET OF EQUIVALENT PIPE LENGTH AND ADD TO ACTUAL MEASURED PIPE LENGTH FOR TOTAL LENGTH.

TO ADJUST THE PIPING HEAD LOSS FOR FLUIDS OTHER THAN WATER, MULTIPLY THE TOTAL HEAD LOSS FOR WATER BY THE FOLLOWING:

- A) 20% PROPYLENE GLYCOL 1.3
- B) 20% CALCIUM CHLORIDE 1.23
- C) 20% METHANOL ALCOHOL 1.25

CONVERSION FACTOR - 1 FOOT OF HEAD = 2.31 PSI

CONVERSION CHART FOR PRESSURE RATING AT VARIOUS TEMPERATURE								
TEMPERATURE DEGREES F	73.4°	80°	90°	100°	110°	120°	130°	140°
CONVERSION FACTOR	1.00	.95	.90	.80	.75	.70	.50	.40



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