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MODERNPOLYMERPIPE.COM





ABOUT MODERN POLYMER PIPE AND EXTRUSIONS

Modern Polymer Pipe and Extrusions was founded in 2014, initially only capable of producing 2" – 6" diameter pipe. After almost a decade of experience, we have expanded our catalog to produce up to 16" diameter pipe as we still look to grow by adding a new production line for up to 24" diameter pipe in 2023. Along with developing a larger catalog, we have also been able to focus on improving the quality of our pipe. We are certified by the NSF that our pipe meets AWWA C901 and AWWA C906 requirements to transport potable water safely.

Modern Polymer Pipe and Extrusions is part of The Modern Group, a strong family of industrial equipment companies serving a broad range of industries including oil and gas, agriculture, power generation, storage, and transportation. Also within the Modern family and located within the same facility, Modern Polymer Products offers compounding, packaging, blending, and laboratory analysis services.

STANDARDS FEATURES

Pipe Manufacturing Standards

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

Pipe Resin Standards

• ASTM D3350

Water Works Standards

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

Available in sizes from 2" – 16" IPS with DR 7 -26

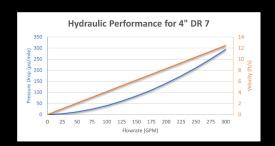
- 2" 4", 500/1000/2000 ft
- 2" 16", 20/40/50 ft sticks

*Custom sizes available upon request



HMW (HIGH MOLECULAR WEIGHT) HDPE (HIGH DENSITY POLYETHYLENE)

is a strong, light-weight thermoplastic used to manufacture pipe for liquid and gas transfer. We use PE4710, an improved, high-performance resin that offers stronger physical properties allowing the pipe to handle high internal pressures. Due to its unique performance properties, HDPE has a broad range of applications and a 100-year service life. At Modern Polymer Pipe and Extrusions, we can help your company meet your HDPE needs.



HYDRAULIC PERFORMANCE 4" IPS PIPE

VISIT OUR WEBSITE TO VIEW AND DOWNLOAD PERFORMANCE DATA ON ALL PIPE OFFERINGS.

Avg OD,	DR	7	7.3	9	11	13.5	15.5	17	21	26
in	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	100 psi	80 psi
	Min wall, in	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.214	0.173
4.5	Avg ID, in	3.137	3.193	3.440	3.633	3.793	3.885	3.939	4.046	4.133
	Weight, lb/ft	3.401	3.285	2.750	2.304	1.915	1.686	1.547	1.268	1.035

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APPLICATIONS



WE'VE GOT DECADES OF EXPERIENCE

- Energy
- EPC
- Municipal
- Water/ Sewer
- Waterworks
- Mining
- Landfill
- Farm and Agriculture
- Golf and Irrigation

THE TOTAL PIPING SOLUTION.



Polyethylene pipe is connected through heat fusion, a technique that partially melts the pipe to then be joined to another section or fitting. The ends of the pipes to be joined are trimmed flush then placed against a heater plate. Once the ends begin to melt, the heater plate is removed, and the ends are brought together. Once cooled, the new formed joint is stronger than the pipe itself and creates a leak-free connection that is self-restrained. HDPE can be installed in several ways including above ground, direct burial, slip lining, pipe-bursting, and directional-drilling as well as be used in open-cut trenchless applications.

WHY CHOOSE HDPE?

• Inert

• 100-year service life • Listed and Approved

- Economical
- Zero Leak Rate
- Hydraulically Smooth
- **Long Design Life**
- Easy to Install
- **Corrosion Resistant**
- **Abrasion Resistant**
- Freeze Resistant



*Ask MPPE about opportunities to

provide fittings that can be shipped

with the pipe.

HMW HDPE 4710 EXTRUSIONS

HDPE is also a great alternative to traditional lumber. The material is much stronger than wood, but it does not share the same disadvantages. HDPE is weather and temperature resistant allowing it to be used in extreme conditions. Along with pipe, we use HDPE to create 2x6 and 4x4 dunnage along with C-Channels.





HDPE PIPE CHART



Va sales		P	E4710 Pressure Class*	335 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
	IPS Size	Avg OD	DR	7	9	11	13.5	15.5	17	26
	AND DANK		Min Wall, in	0.339	0.264	0.216	0.176	0.153	0.140	
	2"	2.375"	Avg ID, in	1.656	1.816	1.917	2.002	2.050	2.079	
			Weight, lb/ft	0.947	0.766	0.642	0.533	0.470	0.431	
		3.5"	Min Wall, in	0.500	0.389	0.318	0.259	0.226	0.206	0.135
	3"		Avg ID, in	2.440	2.676	2.825	2.950	3.021	3.064	3.215
A CONTRACTOR OF THE PARTY OF			Weight, lb/ft	2.057	1.663	1.394	1.158	1.020	0.936	0.626
			Min Wall, in	0.643	0.500	0.409	0.333	0.290	0.265	0.173
	4"	4.5"	Avg ID, in	3.137	3.440	3.633	3.793	3.885	3.939	4.133
			Weight, lb/ft	3.401	2.750	2.304	1.915	1.686	1.547	1.035
			Min Wall, in	0.946	0.736	0.602	0.491	0.427	0.390	0.255
	6"	6.625"	Avg ID, in	4.619	5.064	5.348	5.585	5.719	5.799	6.085
12 20			Weight, lb/ft	7.371	5.960	4.995	4.150	3.654	3.354	2.243
WWW.	8"	8.625"	Min Wall, in	1.232	0.958	0.784	0.639	0.556	0.507	0.332
			Avg ID, in	6.013	6.593	6.963	7.271	7.445	7.549	7.922
			Weight, lb/ft	12.493	10.102	8.466	7.034	6.194	5.684	3.802
<u></u>	10"	10.75"	Min Wall, in	1.536	1.194	0.977	0.796	0.694	0.632	0.413
			Avg ID, in	7.494	8.218	8.678	9.062	9.280	9.409	9.873
1			Weight, lb/ft	19.407	15.693	13.151	10.927	9.622	8.830	5.906
干	E		Min Wall, in	1.821	1.417	1.159	0.944	0.823	0.750	0.490
	12"	12.75"	Avg ID, in	8.889	9.747	10.293	10.748	11.006	11.160	11.710
-10		. 77	Weight, lb/ft	27.300	22.075	18.500	15.372	13.535	12.421	8.308
			Min Wall, in	2.000	1.556	1.273	1.037	0.903	0.824	0.538
	14"	14"	Avg ID, in	9.760	10.702	11.302	11.801	12.085	12.254	12.858
			Weight, lb/ft	32.915	26.616	22.305	18.534	16.320	14.976	10.017
	16"	16"	Min Wall, in	2.286	1.778	1.455	1.185	1.032	0.941	0.615
			Avg ID, in	11.154	12.231	12.916	13.487	13.812	14.005	14.695
			Weight, lb/ft	42.991	34.764	29.133	24.207	21.315	19.560	13.084
		Lege	end		Potable Water Us	se	Sewage Water Use			

*Pressure Ratings based on water at 73°F.
Custom sizes avilable upon request.

HDPE STICK TRUCK LOAD CHART



			Sticks per Bundle	50 ft Sticks			40 ft Sticks			20 ft Sticks		
	IPS Size	DR		Bundles per	Sticks	Footage per	Bundles per	Sticks	Footage per	Bundles per	Sticks	Footage per
			Dullale	Truck	per Truck	Truck	Truck	per Truck	Truck	Truck	per Truck	Truck
	2"	7	50	20	1,000	50,000	24	1,200	48,000	48	2,400	48,000
	2	9 - 17		24	1,200	60,000						
	3"	7		8	400	20,000	11	550	22,000	22	1,100	22,000
		9	50	10	500	25,000				28	1,400	28,000
	3	11	30	13	650	32,500	14	700	28,000			
		13.5 - 17		14	700	32,500						
		7		14	266	13,300	18	342	13,680	36	684	13,680
	4"	9	19	18	342	17,100	22	418	16,720	44	836	16,720
		11	13	21	399	19,950						
		13.5 - 17		22	418	20,900						
and a	6"	7	13	10	130	6,500	12	156	6,240	24	312	6,240
		9		12	156	7,800	14	182	7,280	28	364	7,280
		11 - 17		14	182	9,100	14	102				7,200
	8"	7	9	8	72	3,600	10	90	3,600	20	180	3,600
		9		10	90	4,500	12	108	4,320	24	216	4,320
		11 - 17		12	108	5,400		100	4,320	24	210	4,320
	10"	7	9	5	45	2,250	6	54	2,160	12	108	2,160
		9		6	54	2,700	8	72	2,880	16	144	2,880
		11 - 17		8	72	3,600	δ	12	2,880	10	144	2,000
	12"	7		4	32	1,600	5	40	1,600	10	80	1,600
		9	8	5	40	2,000	6 +4 sticks	52	2,080	13 +4 sticks	108	2,160
A Company of the Comp		11		6	48	2,400	7	56	2,240	14	112	2,240
		13.5 - 17		7	56	2,800						
		7		4	28	1,400	5	35	1,400	10	70	1,400
	14"	9	7	5	35	1,750	6	42	1,680	12	84	1,680
		11 - 17		6	42	2,100	3	42			64	
		7		7	21	1,050	8	24	960	16	48	960
		9		8	24	1,200	11	33	1,320	22	66	1,320
	16"	11	3	10 +2 sticks	32	1,600	12	36	1,440	24	72	1,440
		12 F 17		12	20	1 000						

HDPE COIL TRUCK LOAD CHART



	IPS Size	DR		48 - 50' Truck		53' Truck				
A CONTRACTOR OF THE PARTY OF TH	IP3 3IZE	DK	Coil Size	Coils per Truck	Footage per Truck	Coil Size	Coils per Truck	Footage per Truck		
			2000'	16	32,000					
HERICAL WAR	2"	7 - 17	1000'	20	20,000	500'	56	28,000		
	V V		500'	49	24,500	The same of the	(16)			
	3"	7 - 17	1000'	13	13,000	500'	26	12,000		
	3	/ - 1/	500'	24	12,000	300	20	13,000		
	4"	7 15 5	800'	12	9,600	500'	12	6 500		
F	4	7 - 15.5	500'	12	6,000	500	13	6,500		
		5	H					and the same of th		

