

HDPE PIPE





CONDUCTING OUR
CLIENTS NEEDS



TKP Inc. is the international commercial Technical and Marketing division of Fluidos Industriales Mexicanos – FIMEX.

FIMEX - TKP is an ISO 9001-2015 QMS certified manufacture with corporate offices and manufacturing facility in Monterrey, Mexico. FIMEX has been in the Plastics and Geomembrane industries for over 25 years serving the Mexican and US markets.

Our Polyethylene Pipe facility is equipped with some of the most modern and up to date extrusion lines in North America with multi-layer and striping capabilities to meet various industry's needs. Our fabricated fittings facility utilizes some of the world's highest precision fabrication equipment for miter and saddle fusion to supply standard fittings and custom fusion of manifolds.

TKP's Engineering and Technical staff has over 100 years of experience in the thermal plastics industries serving North America.

TKP is committed to continued development of new products to solve industry needs such as the new TKP-TR temperature resistant pipe for various applications and the TKP-AR abrasion resistant pipe to help in those difficult applications to extent the life of the pipe and reduce cost of shut downs.



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
ISO 9001

QUALITY CERTIFICATIONS

TKP Inc. commitment is to approach our clients to know your needs and satisfy them with products that comply with the requirements of functionality and quality, seeking to improve continually our performance, achieving the growth of our organization.

We offer our PE-4710 pipe, included in the **TR4 of the PPI (Plastic Pipe Institute)**, supported by our excellent allies and suppliers of the best resins available on the market. TKP piping and fittings meet applicable standards for operation in the United States.

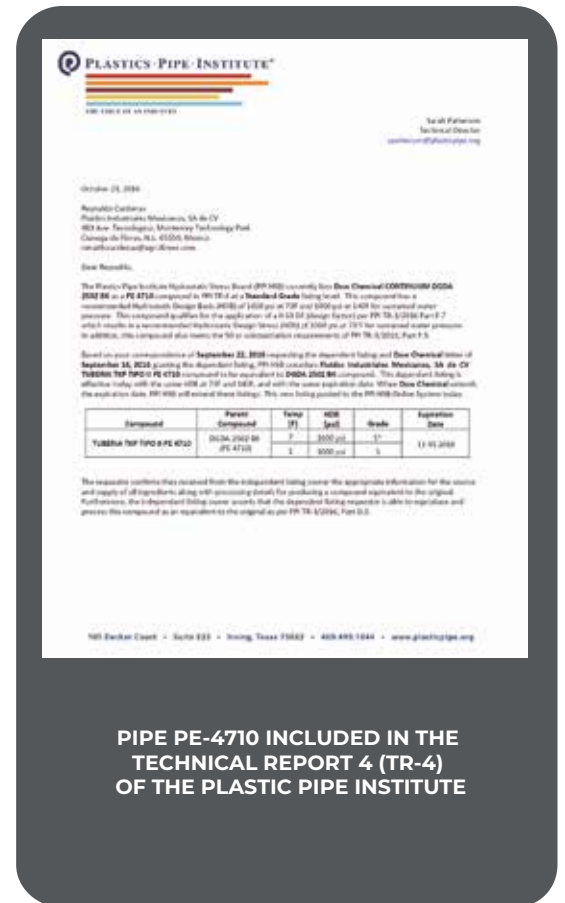
Our Quality system complies with the **ISO-9001: 2015** standard.

The pipe is manufactured according to the general use standards for different applications:

We are using a resin that complies with **ASTM D3350**.

We manufacture pipe under these standards:

- **ASTM F714**
- **ASTM D 3035**
- **ASTM F 2619**
- **AWWA C 906**
- **NSF 14/61**



LABORATORY

In addition, our manufacturing plant in Monterrey Mexico, has a laboratory equipped to verify the qualities of our products:

- **Density**
- **Flow index**
- **Tensile strength**
- **Content of Carbon Black**
- **Hydrostatic pressure resistance**

Our Quality Assurance System is ISO-9001: 2015 Certified.

Offering our clients the search for their satisfaction, the selection of raw materials, equipment, manufacturing methods and qualified personnel to carry out processes focused on continuous improvement and complete traceability of our products.



DIMENSIONAL INSPECTION



TENSION TEST



ITP REPORTS



HYDRAULIC FACILITY FOR PRESSURE TEST



CARBON BLACK TEST

RAW MATERIAL

TKP pipe is made from the most advanced and recognized materials of our industry.

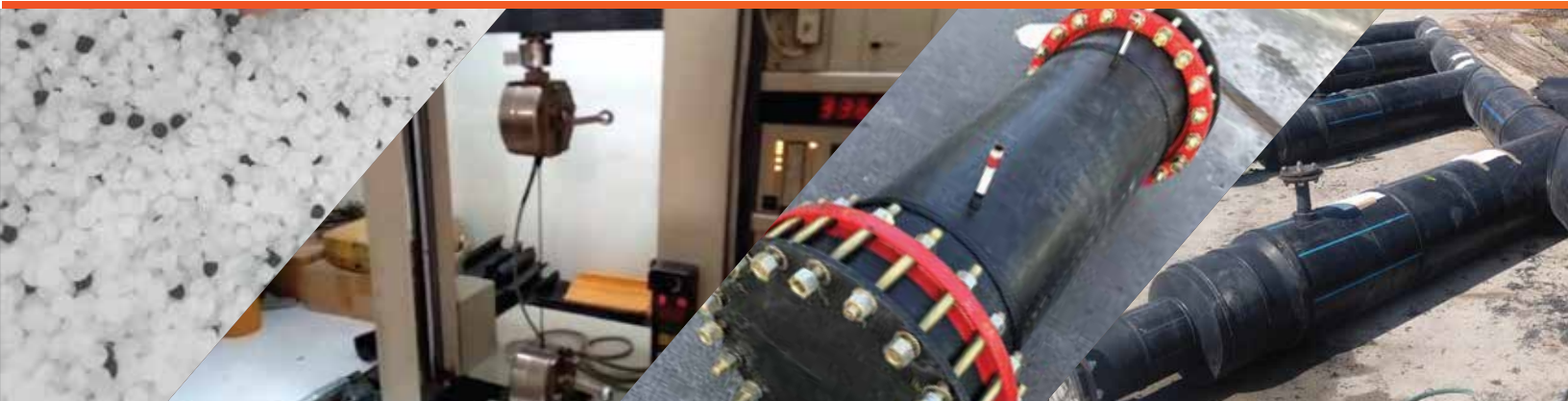
All resins are rated **PE-4710** and / or **PE-100** endorsed by the Plastic Pipes Institute (PPI) and included in its Technical Report 4 (TR4).

In addition to its main qualities, it is given a classification cell: 445574 according to ASTM D3350, with an HDB of 1600 psi @ 73 ° F and 1000 psi @ 140 ° F and has an NSF 14/61 certification for the use in potable water systems, with CC 2 or CC3 code of resistance of chlorine for sanitization.

Each batch is subject to receipt tests that verify the stipulated quality and are duly endorsed by a Quality Certificate of Origin from our suppliers, completing the traceability of the TKP pipeline to its raw materials.

The data sheet information of the resin is available to our customers under request.

TKP TECNIPRE & SUPPLIES		RAW MATERIAL'S SPECIFICATIONS HIGH DENSITY POLYETHYLENE EPE-05	ME-MP DATE: 190831 Revision: 0 page: 1/1
PRODUCTO: HIGH DENSITY POLYTETHYLENE, PE-4710			
USE: PRODUCTION OF HDPE PIPE FOR CONVEY FLUIDS UNDER PRESSURE			
APPEARANCE: PELLETS		PACKAGE: BULK, BOXES, SACKS	
SPECIFICATIONS			
	MINIMUM	MAXIMUM	
DENSITY, GR/CC	0.941	0.955	
DENSITY PIGMENTED GR/CC (*)	0.950	0.965	
MELT INDEX (GR/10 Min) :			
190°C / 2.160 KGS.	0.05	0.40	
190°C / 21.600 KGS	4.00	-----	
190°C / 5.000 KGS	0.25	0.45	
TENSILE STRENGTH, YIELD (PSI)	3,000		
TENSILE STRENGTH, BREAK (PSI)	3,500	-----	
% OF ELONGATION AT BREAK	500	1,000	
ELASTICITY MODULE, PSI	30,000		
CARBON BLACK CONTENT (%) (*)	2.0	3.0	
E.S.C.R. @ 100°C, 600 HRS. (%)	-----	20	
CLASSIFICATION CELL, ASTM D3350: PE445574 A 6 PE445574 C			
(*) ONLY APPLIES TO BLACK MATERIALS			
NOTE FOR THE USA MARKET: THE MATERIAL MUST BE LISTED IN THE PPI'S TECHNICAL REPORT #4 (TR4) THE SECS IN YELLOW CAN BE INCLUDED IN THE TECHNICAL SHEET AND WILL ONLY BE TESTED IN SPECIAL OCCASIONS			
ALL THE SUPPLIERS MUST SEND THE CERTIFICATE OF ANALYSIS (CoA) EVERY LOT SHIPPED TO FIMEX.-TKP			
Revisó		Autorizo	
Ing. Alfredo Maycotte Control de Calidad		Ing. Miguel Gutierrez Garcia Aseguramiento de Calidad	



FABRICATION AND EXTRUSION CAPACITY

TKP Inc. as the commercial division of Fluidos Industriales Mexicanos, FIMEX, proudly presents the TKP line of smooth-walled pipes for pressure fluids conveyance:

TKP in IPS, DIPS and metric (ISO) system.

And our lines of special pipes:

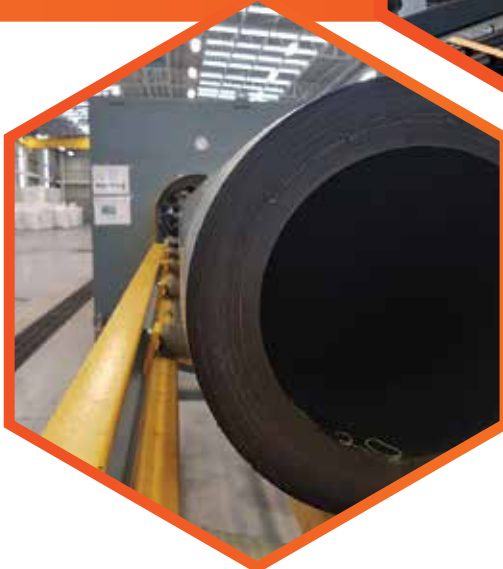
- **TKP-REFLEX**
- **TKP-TR**
- **TKP-AR**
- **TKP-Double Containment Piping Systems**
- **TKP-FIT, our complete line of fabricated fittings**

Available in **IPS pipe from 3"- 48" Ø** and in DR's from 7 to 41, (DR 5 and heavy wall pipes for fabrication of fittings also available).

TKP's also manufactures **fabricated fittings from 3" to 48"Ø:**

- **Tees**
- **22.5°, 45° 90° elbows in long or short radius**
- **Reduced tees**
- **45° and 60° wyes**
- **Concentric Reductions**
- **Flange adapters and iron backing rings**

These are some of the fittings that are offered to our clients, all of which can be NSF 14/61 Certificated and with a complete traceability based on our certified ISO-9001: 2015 quality system.



**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
ISO 9001**

IPS SERIES TKP SINGLE LAYER PIPE

Sizes below IPS 4" per ASTM D3035; Sizes IPS 4" and larger per ASTM F714. Pressure per DR is for water at 73°F. Ratings will vary for other fluids and temperatures. NSF-61 Certification for potable water service available upon request. Terms and Conditions of Sales are defined by our sales department in our offers and in the invoice. The user of this information assumes all risk associated with its use. Changes to this publication may occur without notice.

SIZE (IPS)	OUTSIDE DIAMETER OD (avg)	SUBJECT	DR 7 (335 psi)	DR 7.3 (320 psi)	DR 9 (250 psi)	DR 11 (200 psi)	DR 13.5 (160 psi)	DR 15.5 (140 psi)	DR 17 (125 psi)	DR 21 (100 psi)	DR 26 (80 psi)	DR 32.5 (65 psi)	
3	3.5	min. wall thickness	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.167			
		avg. ID (Internal Diameter)*	2.440	2.484	2.676	2.825	2.950	3.021	3.064	3.147			
		weight (lb/ft)	2.040	1.968	1.646	1.376	1.141	1.006	0.923	0.757			
4	4.5	min. wall thickness	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.214	0.173	0.138	
		avg. ID (Internal Diameter)*	3.137	3.193	3.440	3.633	3.793	3.885	3.939	4.046	4.133	4.206	
		weight (lb/ft)	3.372	3.253	2.720	2.275	1.887	1.660	1.526	1.247	1.018	0.819	
6	6.625	min. wall thickness	0.946	0.908	0.736	0.506	0.491	0.427	0.390	0.315	0.255	0.204	
		avg. ID (Internal Diameter)*	4.6.19	4.701	5.064	4.491	5.585	5.719	5.799	5.956	6.085	6.193	
		weight (lb/ft)		7.059	5.894	3.479	4.095	3.599	3.307	2.703	2.209	1.781	
8	8.625	min. wall thickness	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.411	0.332	0.265	
		avg. ID (Internal Diameter)*	6.013	6.120	6.593	6.963	7.271	7.445	7.549	7.754	7.992	8.062	
		weight (lb/ft)	12.385	11.963	9.988	8.359	6.939	6.100	5.597	4.591	3.744	3.012	
10	10.75	min. wall thickness	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.512	0.413	0.331	
		avg. ID (Internal Diameter)*	7.494	7.628	8.218	8.678	9.062	9.280	9.409	9.665	9.873	10.049	
		weight (lb/ft)	19.245	18.581	15.515	12.983	10.774	10.774	8.695	7.128	5.805	4.689	
12	12.75	min. wall thickness	1.821	1.747	1.417	1.159	0.944	0.944	0.750	0.607	0.490	0.392	
		avg. ID (Internal Diameter)*	8.889	9.047	9.747	10.293	10.748	10.748	11.160	11.463	11.710	11.918	
		weight (lb/ft)	27.062	26.138	21.837	18.267	15.155	15.155	12.238	10.023	8.169	6.587	
14	14	min. wall thickness	2.000	1.918	1.556	1.273	1.037	1.037	0.824	0.667	0.538	0.431	
		avg. ID (Internal Diameter)*	9.760	9.934	10.702	11.302	11.801	11.801	12.254	12.587	12.858	13.087	
		weight (lb/ft)	32.635	31.511	26.329	22.030	18.279	18.297	14.763	12.093	9.848	7.952	
16	16	min. wall thickness	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.762	0.615	0.492	
		avg. ID (Internal Diameter)*	11.154	11.353	12.231	12.916	13.487	13.812	14.005	14.385	14.695	14.956	
		weight (lb/ft)	42.629	41.157	34.384	28.777	23.872	21.005	19.269	15.789	12.866	10.375	
18	18	min. wall thickness	2.571	2.466	2.000	1.636	1.333	1.161	1.059	0.857	0.692	0.554	
		avg. ID (Internal Diameter)*	12.549	12.773	13.760	14.531	15.173	15.538	15.755	16.183	16.532	16.826	
		weight (lb/ft)	53.940	52.089	43.513	36.403	30.210	26.584	24.395	19.977	16.286	13.142	
20	20	min. wall thickness	2.857	2.740	2.222	1.818	1.481	1.290	1.176	0.952	0.769	0.615	
		avg. ID (Internal Diameter)*	13.943	14.192	15.289	16.145	16.859	17.265	17.506	17.981	18.369	18.695	
		weight (lb/ft)	66.599	64.307	53.715	44.947	37.294	32.920	30.102	24.658	20.109	16.211	
22	22	min. wall thickness	3.143	3.014	2.444	2.000	1.630	1.419	1.294	1.048	0.846	0.677	
		avg. ID (Internal Diameter)*	15.337	15.611	16.818	17.760	18.545	18.991	19.256	19.779	20.206	20.565	
		weight (lb/ft)	80.591	77.812	64.991	54.391	45.149	39.712	36.433	29.858	24.335	19.629	
24	24	min. wall thickness	3.429	3.288	2.667	2.182	1.778	1.548	1.412	1.143	0.923	0.738	
		avg. ID (Internal Diameter)*	16.731	17.030	18.347	19.375	20.231	20.717	21.007	21.577	22.043	22.434	
		weight (lb/ft)	95.916	92.603	77.365	64.735	53.726	47.260	43.369	35.255	28.963	23.344	
26	26	min. wall thickness	3.714	3.562	2.889	2.364	1.926	1.677	1.529	1.238	1.000	0.800	
		avg. ID (Internal Diameter)*	18.126	18.449	19.876	20.989	21.917	22.444	22.758	23.375	23.880	24.304	
		weight (lb/ft)	114.714	110.789	92.535	77.440	64.261	56.532	51.856	42.486	34.648	27.940	
28	28	min. wall thickness	4.000	3.836	3.111	2.545	2.074	1.806	1.647	1.333	1.077	0.862	
		avg. ID (Internal Diameter)*	19.520	19.868	21.404	22.604	23.603	24.170	24.508	25.713	25.717	26.174	
		weight (lb/ft)	133.490	128.466	107.312	89.785	74.522	65.563	60.154	49.266	46.135	32.421	
30	30	min. wall thickness			3.333	2.727	2.222	1.935	1.765	1.429	1.154	0.923	
		avg. ID (Internal Diameter)*			22.933	24.218	25.289.000	25.897	26.259	26.971	27.554	28.043	
		weight (lb/ft)			123.183	103.076	85.543	75.264	69.068	56.585	46.135	37.196	
32	32	min. wall thickness			3.556	2.909	2.370	2.065	1.882	1.524	1.231	0.985	
		avg. ID (Internal Diameter)*			24.462	25.833	26.975	28.009	28.770	29.391	29.913		
		weight (lb/ft)			140.183	117.285	97.324	85.672	78.557	64.370	52.494	42.340	
34	34	min. wall thickness			3.778	3.091	2.519	2.194	2.000	1.619	1.308	1.046	
		avg. ID (Internal Diameter)*			25.991	27.447	28.661	29.350	29.760	30.568	31.228	31.782	
		weight (lb/ft)			158.244	132.411	109.905	96.714	88.700	72.657	59.264	47.773	
36	36	min. wall thickness			4.000	3.273	2.667	2.323	2.118	1.714	1.385	1.108	
		avg. ID (Internal Diameter)*			27.520	29.062	30.347.000	31.076	31.511	32.366	33.065	33.652	
		weight (lb/ft)			177.399	148.454	123.208	108.424	99.457	81.446	66.444	53.581	
42	42	min. wall thickness					3.818	3.111	2.710	2.471	2.000	1.615	1.292
		avg. ID (Internal Diameter)*					33.905	35.404	36.255	36.762	37.760	38.575	39.260
		weight (lb/ft)					202.039	167.675	147.568	135.372	110.874	90.393	72.893
48	48	min. wall thickness						3.556	3.097	2.824	2.286	1.846	1.477
		avg. ID (Internal Diameter)*						40.461	41.435	42.014	43.154	44.086	44.869
		weight (lb/ft)						219.036	192.774	176.813	144.833	118.082	95.223

All dimensions in inches;

CONTACT OUR SALES REPRESENTATIVES TO CONFIRM AVAILABILITY AND FOR SIZES AND DR'S NOT SHOWN.

*NOTE: Calculated Avg ID = Avg OD - (2.12 x min wall), and is for estimating fluid flow.

Pipe ID is approximate, not a specification dimension. The weight recorded is only for information, not to be considered as a specification.

DIPS SERIES TKP SINGLE LAYER PIPE

Sizes per ASTM F714. Pressure per DR is for water at 73°F. Ratings will vary for other fluids and temperatures. NSF-61 Certification for potable water service available upon request. Terms and Conditions of Sales are defined by our sales department in our offers and in the invoice. The user of this information assumes all risk associated with its use. Changes to this publication may occur without notice.

DIPS SIZE	OUTSIDE DIAMETER AVG	SUBJECT	RD 9 (250 psi)	RD 11 (200 psi)	RD 13.5 (160 psi)	RD 15.5 (140 psi)	RD 17 (125 psi)	RD 19 (110 psi)	RD 21 (100 psi)	RD 26 (80 psi)
4"	4.8	WALL THICKNESS (minimum)	0.533	0.436	0.356	0.310	0.282	0.253	0.229	0.185
		INTERNAL DIAMETER, AVG	3.733	3.927	4.089	4.181	4.235	4.295	4.343	4.431
		WIGHT, LB/ FT	3.093	2.587	2.151	1.893	1.732	1.564	1.423	1.161
6"	6.9	WALL THICKNESS (minimum)	0.767	0.627	0.511	0.445	0.406	0.363	0.329	0.265
		INTERNAL DIAMETER, AVG	5.367	5.645	5.878	6.010	6.088	6.174	6.243	6.369
		WIGHT, LB/ FT	6.396	5.348	4.439	3.906	3.585	3.227	2.94	2.391
6"	9.05	WALL THICKNESS (minimum)	1.006	0.823	0.670	0.584	0.532	0.476	0.431	0.348
		INTERNAL DIAMETER, AVG	7.039	7.405	7.709	7.882	7.985	8.097	8.188	8.354
		WIGHT, LB/ FT	11.004	9.207	7.635	6.723	6.162	5.55	5.051	4.118
10"	11.1	WALL THICKNESS (minimum)	1.233	1.009	0.822	0.716	0.653	0.584	0.529	0.427
		INTERNAL DIAMETER, AVG	8.633	9.082	9.456	9.668	9.794	9.932	10.043	10.246
		WIGHT, LB/ FT	16.543	13.845	11.488	10.11	9.267	8.351	7.604	6.197
12"	13.2	WALL THICKNESS (minimum)	1.467	1.200	0.978	0.852	0.776	0.695	0.629	0.508
		INTERNAL DIAMETER, AVG	10.267	10.800	11.244	11.497	11.647	11.811	11.943	12.185
		WIGHT, LB/ FT	23.405	19.581	16.254	14.306	13.11	11.818	10.752	8.767
16"	17.4	WALL THICKNESS (minimum)	1.933	1.582	1.289	1.123	1.024	0.916	0.829	0.669
		INTERNAL DIAMETER, AVG	13.533	14.236	14.822	15.155	15.353	15.568	15.743	16.062
		WIGHT, LB/ FT	40.654	34.027	28.239	24.856	22.802	20.532	18.68	15.22

All dimensions in inches;

NOTE 1: Diameters not included in this table are considered special.

NOTE 2: In case of requiring special manufacturing, please contact a sales representative: info@tkp.mx.

NOTE 3: Expressed weights are only approximate and informative, and not constitute a specification.

METRIC (ISO) SERIES TKP SINGLE LAYER PIPE

Sizes per ASTM F714 / ISO 4427-2. Pressure per DR is for water at 73°F. Ratings will vary for other fluids and temperatures. NSF-61 Certification for potable water service available upon request. Terms and Conditions of Sales are defined by our sales department in our offers and in the invoice. The user of this information assumes all risk associated with its use. Changes to this publication may occur without notice.

DIN/ISO								
Metric diameter	Maximum diameter	SUBJECT	RD 9 (250 psi)	RD 11 (200 psi)	RD 13.5 (160 psi)	RD 17 (125 psi)	RD 21 (100 psi)	RD 26 (80 psi)
355	357.2	min wall thickness	39.4	32.5	26.3	20.9	16.9	13.7
		avg internal diameter	276.1	290.1	302.4	313.2	321.2	327.7
		weight (lb/ft)	26.37	22.26	18.39	14.87	12.17	14.83
400	402.4	min wall thickness	44.4	36.6	29.6	23.5	19.0	15.4
		avg internal diameter	311.1	326.8	340.7	352.9	361.9	369.2
		weight (lb/ft)	33.49	28.25	23.32	18.84	15.42	12.63
450	452.7	min wall thickness	50.0	41.2	33.3	26.5	21.4	17.3
		avg internal diameter	350.0	367.7	383.3	397.1	407.1	415.4
		weight (lb/ft)	42.42	35.77	29.51	23.89	19.54	15.96
500	503	min wall thickness	55.6	45.7	37.0	29.4	23.8	19.2
		avg internal diameter	388.9	408.5	425.9	441.2	452.4	461.5
		weight (lb/ft)	52.41	44.10	36.43	29.46	24.15	19.68
560	563.4	min wall thickness	62.2	51.2	41.5	32.9	26.7	21.5
		avg internal diameter	435.6	457.6	477.0	494.1	506.7	516.9
		weight (lb/ft)	65.67	55.33	45.76	36.92	30.34	24.68
630	633.8	min wall thickness	70.0	57.6	46.7	37.1	30.0	24.2
		avg internal diameter	490.0	514.8	536.7	555.9	570.0	581.5
		weight (lb/ft)	83.14	70.05	57.93	46.78	38.35	31.29
710	716.4	min wall thickness	78.9	65.1	52.6	41.8	33.8	27.3
		avg internal diameter	552.2	579.7	604.8	626.5	642.4	655.4
		weight (lb/ft)	105.61	89.21	73.54	59.42	48.71	39.74
800	807.2	min wall thickness	88.9	73.4	59.3	47.1	38.1	30.8
		avg internal diameter	622.2	653.2	681.5	705.9	723.8	738.5
		weight (lb/ft)	134.07	113.26	93.41	75.44	61.84	50.46
900	908.1	min wall thickness		82.6	66.7	52.9	42.9	34.6
		avg internal diameter		734.9	766.7	794.1	814.3	830.8
		weight (lb/ft)		143.34	118.21	95.47	78.27	63.86

All dimensions in millimeters;

NOTE 1: Diameters not included in this table are considered special.

NOTE 2: In case of requiring special manufacturing, please contact a sales representative: info@tkp.mx.

NOTE 3: Expressed weights are only approximate and informative, and not constitute a specification.

APPLICATIONS

TKP pipe has a wide range of applications - for water and water-based fluid conveyance in different markets:

Municipalities:

- Drinking water
- Recycled water
- Treated water
- Reclaimed water
- Sewer

Oil & Gas:

- Pressurized water
- Brine for the oil industry
- Dry gas
- Natural gas

Mining:

- Fluids with solids in suspension
- Sludge in the mining industry
- Pressurized water

Industrial Applications:

- Conveying chemical solutions or substances
- Cooling Water
- Conduit

TKP can offer pipe with coextruded stripes or coextruded external layer according to applicable color codes or under customer requirements.

For special applications, we offer our special pipeline, such as:

- **TKP-TR: Fluids at high temperatures (140-180 ° F).**
- **TKP-AR: Abrasion Resistant.**
- **TKP-REFLEX: Exposed to sunlight.**
- **TKP-Double Containment Piping Systems: Pipe system for leakage protection.**

See our catalog of each product for further information.





Contact us,
we will be ready to help you

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