TEKNIPIPE & SUPPLIES

TKP - TR

Monolayer, HDPE High Temperature Resistant

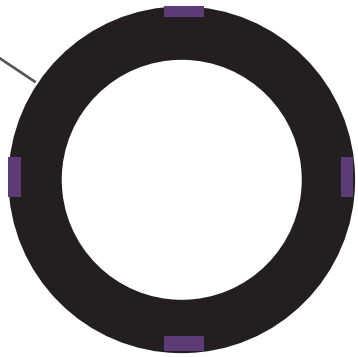
TKP-TR

ADVANTAGES:

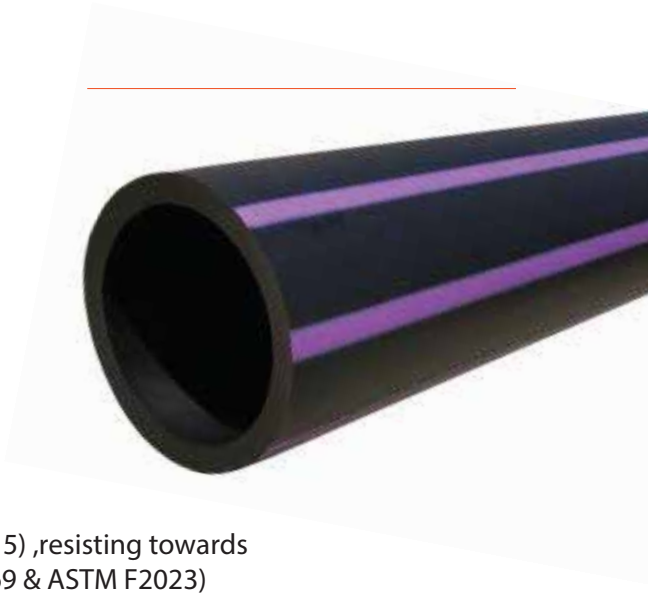
- Uses a special polymeric compound, PE-RT, developed in Europe.
- Withstands higher operating temperatures than allowed by standard PE4710 products.
- Continuous operation at temperatures from -45°C (-49°F) to 82° C (180°F).
- Like PE4710 pipes, TKP-TR follows the same parameters for Butt fusion and can be jointed also using flange adaptors and backing rings, among others mechanical methods.
- TKP offers diameters from 3 "to 48" and of course, TKP-FIT offers the fittings.
- Typical DR´s are 7,9, 11,17 and 26; contact your sales representative for other wall thicknesses.

SINGLE LAYER

SOLID WALL PIPE WITH EUROPEAN PE-100 RATED PERT COMPOUND FOR HIGH TEMPERATURE RESISTANCE, BLACK FOR UV PROTECTION, WITH PURPLE COLOR STRIPES FOR IDENTIFICATION.



VALUABLE PROPERTIES



Higher standards in properties:
- Chlorine resistance.
- High quality water supply.
- Chemical resistance.
- Resistance to crack propagation.

- When the application is related with the transport of hot water:

Chlorine resistance:
TKP-TR is qualified in the highest ranking for chlorine resistance (CLASS 5) ,resisting towards oxidizing conditions tested with the chlorine resistance test (ASTM F2769 & ASTM F2023)

High quality water supply:
TKP-TR preserves the water purity and quality (taste and odor):
Value of 2 of the pipe tested with standard EN1622 @ 140°F with a maximum of 4 in the industry standard.

- When the application is related with the transport of industrial and chemical fluids:

Very good resistance against aggressive chemicals:
The high temperature resistance of TKP-TR , does not interfere with its chemical resistance, what means the pipe has the same resistance of the normal HDPE pipe.

- For all the applications:

Resistance of crack propagation:
TKP-TR pipe has more resistance to the crack propagation that normal PE-4710 or PE-100 pipe.

OTHER IMPORTANT APPLICATIONS ARE:

- Pipe for the conduction of fluids during the leaching process in mining.
- Tube for the conduction of fluids during bioleaching (bacterial process) in copper mines.
- Transport of hot water in geothermal wells.
- Oil and Gas Gathered Applications.

PRESSURE & TEMPERATURE OPERATIONS TABLE

	OPERATION PRESSURE AND TEMPERATURE FOR TKP TR (PSI)					
	TEMPERATURE					
	68°F	100°F	120°F	140°F	160°F	180°F
DR 7	332	285	255.2	227	238.2	168.1
DR 9	249	214	192	169	150	126
DR 11	199.2	170	152.3	135	142	101

NOTE: For the conduction of fluids containing more than 2% of Hydrocarbons in liquid phase, the Safety factor must be increase and the working pressure is 66 % of the normal working pressure

MOST COMMON SIZES FOR TKP-TR

IPS SERIES		DR-7			DR-9			DR-11			DR-17			DR-26		
IPS SIZE	AVG OD	MINIMUM WALL	AVERAGE ID	WEIGHT	MINIMUM WALL	AVERAGE ID	WEIGHT	MINIMUM WALL	AVERAGE ID	WEIGHT	MINIMUM WALL	AVERAGE ID	WEIGHT	MINIMUM WALL	AVERAGE ID	WEIGHT
in	in	in	in	lb/ft	in	in	lb/ft	in	in	lb/ft	in	in	lb/ft	in	in	lb/ft
6	6.625	0.946	4.619	7.305	0.736	5.064	5.894	0.602	5.348	4.930	0.390	5.799	3.307	0.255	6.085	2.209
8	8.625	1.232	6.013	12.385	0.958	6.593	9.988	0.784	6.963	8.359	0.507	7.549	5.597	0.332	7.922	3.744
10	10.750	1.536	7.494	19.245	1.194	8.218	15.515	0.977	8.678	12.983	0.632	9.409	8.695	0.413	9.873	5.805
12	12.750	1.821	8.889	27.062	1.417	9.747	21.837	1.159	10.293	18.267	0.750	11.160	12.238	0.490	11.710	8.169
16	16.000	2.286	11.154	42.629	1.778	12.231	34.384	1.455	12.916	28.777	0.941	14.005	19.269	0.615	14.695	12.866
20	20.000	2.857	13.943	66.599	2.222	15.289	53.715	1.818	16.145	44.947	1.176	17.506	30.102	0.769	18.369	20.109

*Expressed weights are only approximate, and inforamtive, they do not contitute a specification. in case of requiring a specific size not included in this table please contact TKP or visit www.tkp.mx.

Other specifications:
Ovality: < 3%
Eccentricity: 12% maximum
Carbon black content: > 2 % (External layer)
Elongation at brake > 400%
Maximum operative temperature: 82°C (180°F)

TKP
TEKNIPIPE & SUPPLIES

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we will be ready to help you

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