

TGH 100 Black

High Density Polyethylene

Product Description

TGH 100 black is a high-density polyethylene (HDPE) PE 100 compound for pipes and fittings, which has steadily replaced traditional materials such as cast iron, ductile iron and concrete in piping systems. Smaller pipes can be coiled and installed over long distances without connections. TGH 100 black is classified as PE 100 and provides good stress crack resistance properties (ESCR) combined with excellent long-term hydrostatic strength. From ISO 9080 evaluation, a lifetime of 100 years even at 40°C can be concluded. In addition, it has demonstrated outstanding resistance to rapid crack propagation in the S4-test with a high wall thickness pipe. TGH 100 black meets all requirements of the international standards for PE pressure piping systems: ISO 4427/EN 12201 for water, ISO 4437/EN 1555 for gas and AS NZS 4131. TGH 100 black has been manufactured under TÉCNICAS GÁS licensed technology.

General Information

- **Status Commercial:** Active
- **Application:** Drinking Water Pipe, Gas Pipe, Industrial, Soil & Waste Pipe

	Properties	Value	Unit	Test Methods
Physical	Melt Flow Rate (190°C/5kg)	0.23	g/10min	ISO 1133-1
	Density	0.959	g/cm ³	ISO 1183-1
	Tensile Modulus (23°C)	1100	MPa	ISO 527-1,2
	MRS Classification	10	MPa	ISO 9080
	FNCT (80°C/4MPa/2%N100)	>1000	h	ISO 16770
	NPT (80°C/9.2 bar)	>2000	h	ISO 13479
	S4-Test @ 0°C, Ø315x28.6mm	Pc>20	bar	ISO 13477
	S4-Test @ 0°C, Ø630x57.2mm	Pc>10	bar	ISO 13477

NOTED: