

- PRODUCT NAME** : ISO 8772 PIPE øE 900 mm øI 814.2 mm ESP 42.9 SDR 21 PE 100 SN 8 ORANGE
- DESCRIPTION** : GLOBALPLAST SAC pipes are manufactured with 100% virgin High Density Polyethylene resin (HDPE) which is extremely strong, durable, flexible, and resistant to corrosion, abrasion and chemicals.
- UV PROTECTION** : In addition, the black pipe has ultraviolet (UV) protection to minimize degradation and contains 2 to 2.5% carbon black, so it can be installed and stored outdoors in most climates for extended periods of time without damage or loss of physical properties.
- USE AND APPLICATIONS** : The pipeline can transport Water, Wastewater, Chemicals, Toxic Waste, Mine Tailings, Compressed Gases and Petroleum. It is mostly used for transporting natural gas as there is no tolerance for drips and leaks and no risk of corrosion.
- FEATURES AND BENEFITS** :
- In the case of orange colored pipes, the color used is RAL-8023. With a pipe expansion coefficient of $\alpha=0.2$ mm/m°C.
 - Zero Leaks, Zero Drips.
 - Durability and long term resistance.
 - High pressure and impact resistant.
 - Suitable for extreme climates.
 - Resistance to corrosion and Chemicals.
 - Lower Installation Costs.
 - Easy Installation.
 - Perfect for Trenchless Installations.
 - Light Weight and Flexible.
 - Better Material for the Environment.
 - Non Toxic.
 - Low thermal conductivity.
 - High Abrasion and Corrosion Resistance.
 - With an accepted flow index range of 0.15 to 1.2 g/10min and with a maximum deviation of 0.25 g/10min with respect to the quality certificate of the raw material manufacturer.
- MAINTENANCE** : In general, maintenance is not performed, only their resistance and useful life is evaluated in order to change them. The following operation is recommended: Visual inspection.
- RECOMMENDATIONS** :
- Working temperature: 23° C (as the temperature increases, the Nominal Pressure decreases).
 - Transportation: Vehicles should support the full length of the pipes. When loading and unloading, do not hit, drag or pull them in order not to damage their surface.
 - Storage: Place them on flat or uniform surfaces, without point loads, such as stones or sharp objects, support with wooden slats can be used with a separation of 1 m between each support and lateral wedges that prevent the displacement of the rows."

DETAILS :

TEST DESCRIPTIONS		SPECIFICATION	
GENERAL FEATURES	Smooth internal and external surface.	smooth internal and external surface, uniform color. It shall not present cracks, fissures, perforations, or incrustations of foreign material, cavities or bubbles	
	Clean internal and external surface.		
	Internal and external surface free of visible impurities.		
	Internal and external surface Free of pores, cavities and irregularities.		
	Cut ends clean and square to the pipe axis.		
	Uniform color.		
SIZING	Minimum External Diameter (mm)	900.00	
	Maximum External Diameter (mm)	908.10	
	Minimum wall thickness (mm)	42.90	
	Maximum wall thickness (mm)	49.70	
	Minimum Inner Diameter (mm)	800.60	
	Maximum Inner Diameter (mm)	822.30	
	Weight Kg/average meter	118.120	
	Total length (m)	ACCORDING TO AGREEMENT	
	Product presentation (units)	Pipe of 12 meters each	
TESTS	Hydrostatic Pressure Test	They are tested according to NTP-ISO 1167 and must meet the requirements of Table 1 of NTP-ISO 8772 (80° C / 165 h / Circumferential Stress 4 Mpa)	
	Pipe test pressure (Bar.)		4.00
	Ring Stiffness Test	They are tested according to ISO 9969 and must meet the requirements of Table 8 of NTP-ISO 8772.	
	Ring Stiffness Value (kN/m ²)		≥ 8
	Longitudinal reversion test ≤ 3%, 110 °C (half air)		
Value of longitudinal reversion (%)	≤ 3%	They are tested according to NTP-ISO 2505 having to fulfill the requirements of Annex A: The minimum accepted reversion is ≤ 3 %.	
LABELING		It is labeled according to NTP- ISO 8772 Chapter 11 (Table 13).	

STANDARD / SPECIFICATION :

- NTP-ISO 8772 "PLASTIC PIPE SYSTEM FOR NON-PRESSURE SUBWAY DRAINAGE AND SEWERAGE - (PE)".
 NTP-ISO 1167 "THERMOPLASTIC PIPES. Resistance to internal pressure. Test methods and parameters".
 NTP-ISO 2505 "THERMOPLASTIC PIPES. Longitudinal reversion. Test methods and parameters".
 ISO 9969 "THERMOPLASTIC PIPES - Determination of Ring Stiffness".
 ISO 1133-1 "Plastics. Determination of the Melt Mass-Flow Rate and Melt Volume-Flow Rate Thermoplastics".

manufacture of HDPE polyethylene pipes
 NTP ISO 4427-2, NTP ISO 8772, ASTM F714 and API Spec 15LE Standards

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