

Afripipes

Afri Piping Systems (Pty) Ltd
SPECIFICATIONS DOCUMENT

AfriSil

Fibre Optic Ducting (Innerduct/Sub-duct)



Afrisil is Afripipes' Sub-Duct or Inner Duct Solutions.

Designed to allow for quick and easy installation of Ducted Cables, HDD or CST cables. The thick outer wall protects the cables from external forces, environmental elements and can be manufactured with a rodent repellent. The Afrisil solution can be shipped on drums or coiled and stacked

Technical Data

Characteristic:

- Colour As per requirement with or without 4 identification stripes.
- Construction Outer layer - HDPE. Inner layer - silicone based compound.
- Material HDPE (High Density Polyethylene).

Pipe Properties:

• Specifications

Inner / Outer Diameter	32/25	32/26	32/27	37/29	40/32	40/33	40/34	50/42
• Diameters in millimeters								
• Length	Coils	1000m			500m			
	Drums	2000m			2000m			
• Ovality		<5%			<5%			
• Impact Resistance	No Breaks, No Fragmentation, No Cracks as defined in method							
• Kink Test		Passes			Passes			
• Bending Radius		20 Diameter			20 Diameter			
• Coil Set		Passes			Passes			
• Chemical Resistance (ISO/TR10358)		Passes			Passes			
• Marking every 1000mm		Afripipes, AfriSil, Size, Batch Number, Time, Length						
• Coefficient of Friction		<0.10			<0.10			
• Pressure Rating		>6 Bar			>6 Bar			

Handling and Storage:

• Storage Temperature	-20°C to +60°C
• Installation Temperature (Recommended)	+15°C to +40°C
• Ultra-Violet Resistance Period	> 1 Year
• Installation	As per SABS 1200 LB

Material Properties:

	Typical Values*	Test Method
• Melt Index (190°C/2.16kg)	<0.3/10 minutes	ISO 1133
• Density	0.950g/cm ³	ISO 1183
• Tensile Strength at Yield Point	26Mpa	ISO 527
• Elongation at Break	>500%	ISO 527
• Flexural Stress (3.5% Deflection)	22Mpa	ISO 178
• Charpy Notched Impact Strength (23°C)	23kJ/m ²	ISO 179
• Charpy Notched Impact Strength (-30°C)	20kJ/m ²	ISO 179
• Shore Hardness D	62	ISO 868
• Vicat Softening Point (Load 5kg)	80°C	ISO 306

*Typical Values for guideline only