

**ZACK PLAS**

PIPE EXTRUSION &amp; INJECTION MOULDING

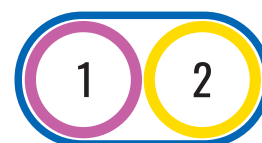
## PRODUCT TECHNICAL DATA

Product: 12/10mm	Bundle: 2 way	Bundled Duct – Direct burial
Product supply: 1000m	Type: reel / drum	Wall thickness: 1mm
Inner diameter: 10mm	Outer diameter: 12mm	

Characteristics	
Construction	Outer layer: HDPE Inner layer: Silicone
Material	HDPE (Polyethylene)

Properties	
Ovality	<5%
Pressure Rating	12 bar for 5 minutes – Inner ducts
Coefficient of Friction	(Less than one)
Ball Testing	80% of inside diameter, ball passes freely
Chemical Resistance	Petrol, Diesel, Acetone, Ingepol
Colour	RAL Codes
Kink Test	Passes
Bending Radii	20 x outside diameter

Handling & Storage	
Storage Temperature	-20 °C to +60 °C
Installation Temperature	+15 °C to +40 °C
UV Resistance Period	1-year outdoor storage
Installation	As per SABS 1200LB



Two-way  
(Profile system with  
protective sheath)

Material Properties	Values	Test Method
Melt Index (190°C/2.16kg)	0.40g/10 minutes	ASTM D1238
Density	0.941 – 0.957g/cm <sup>3</sup>	ASTM D1505
Vicat Softening Point @ 10 N, 50°C/hr	125 °C	ASTM D1525
Melting Point	133 °C	ASTM D2117
Tensile Strength at Yield Point	320kg/ m <sup>3</sup>	ASTM D638
Tensile Strength at Break Point	400kg/ m <sup>3</sup>	ASTM D638
Elongation at Break	1000%	ASTM D638
Stiffness	10,000kg/ m <sup>2</sup>	ASTM D747
Flexural Modulus	14,000kg/ m <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	15kg.cm/cm – Partial Break	ASTM D256
Durometer Hardness	65 Shore D	ASTM D2240
ESCR (Condition B, 25% Ingepol)	400hrs, F50	ASTM D1693

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