

# FLEXIBLE BEND 1M

(ABS031 - 27mm)



**BISSON**  
THE PIPE FITTINGS EXPERTS

Soft PVC hose with embedded steel wire reinforcement. Very exible, strong, abrasion resistant, smooth inside and outside.

## Installation Instructions:

Do not paint. Keep pipe clean and free from dust. Do not install in direct sunlight. Only install with approved pipe. Do not use solvents to clean, only soapy water.

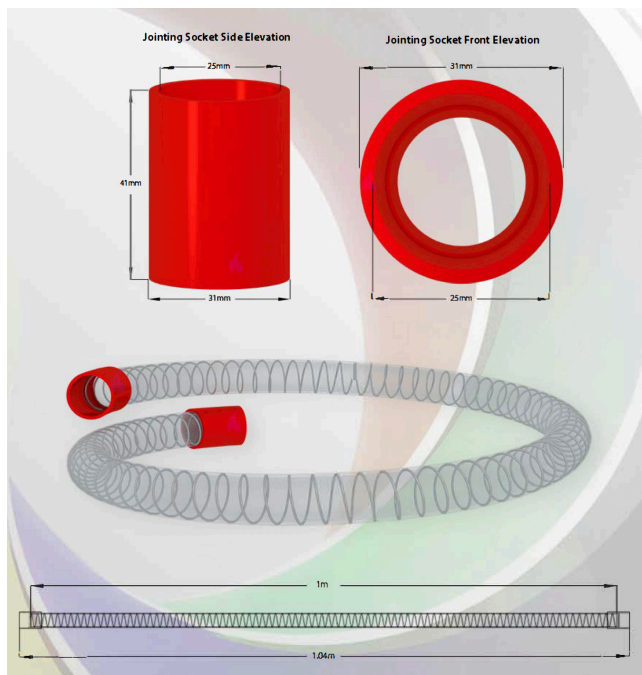
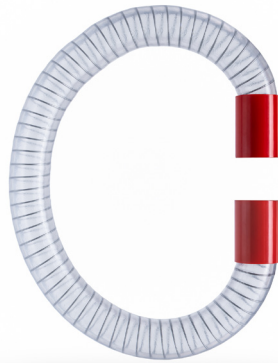
Temperature range -20°C to 70°C.

**PART NO.:**  
ABS031 -  
27mm

**FITTINGS COLOUR:**  
Red

**PIPE COLOUR:**  
Transparent

**DIAMETER TOLERANCE:**  
+ / - 0.15mm'



## RAW MATERIAL DATA

### Soft PVC

Temperature range -20°C to 70°C.  
wall thickness 3.5mm.  
Weight 360 gr./mtr.  
Bending Radius 55mm.  
Working Pressure 5 bar at 23°C.  
Vacuum 8.5 m. H<sub>2</sub>O.  
Steel coil length 60mtr.

All technical specifications apply to a temperature of 23°C ± 2°C (ISO291) - Tolerance on all specifications ± 5%.

### 3M Scotch-Weld DP-8005 cement.

Able to withstand:  
4 months at 70°F (21°C) (Control).  
4 months in water at 140°F (60°C).  
4 months dry at 120°F (49°C).

Each of the tested bonds showed little or no degradation from extended ageing.

In general, the bonds showed excellent resistance to most environments except toluene and gasolene.

### Notes for use:

The product can be used under the following conditions:

Temperature Range -5°C to 60°C.  
Shear Force up to 930 PSI.  
Humidity up to 95%.  
Working pressure up to 5 bar at 23°C.

Can be immersed in water for up to 4 months at 60°C.

Can not be used if the product will be contaminated with gasoline or toluene.

Cement used to glue the tube to the end pieces show no significant degradation from ageing.

### Physical

Specific Gravity:  
Test Method ASTM D792

### Melt Mass - Flow Rate (MFR)

200C/5.0Kg 2.6g/10 min  
220C/10Kg 33g/10min  
Test Method ASTM D1238

### Moulding Shrinkage

Flow 0.0040 to 0.0070 in/in  
Test Method ASTM D955

### Mechanical

Tensile Strength  
Yield 5510psi 0.118 in (3.00mm)  
Tensile Elongation: 22%  
Break 0.118 IN (3.00mm)  
Test Method ASTM D638

### Flexural Modulus

284000psi 0.236 in (6.00mm)  
Test Method ASTM D790

### Flexural Strength

8390psi 0.236 in (6.00mm)  
Test Method ASTM D790

### Impact

Notched IZOD Impact  
73F (23C) 0.118 in (3.00mm) 4.6ft-lb/in  
73F (23C) 0.236 in (6.00mm) 3.3ft-lb/in  
Test Method ASTM D256

### Hardness

Rockwell Hardness (R-Scale) 103  
Test Method ASTM D785

### Thermal

Deflection Temperature Under Load 264psi (1.8 MPa) Unannealed 181/83t  
Viscal Softening Temperature 214/101t  
Test Method ASTM D1525

### Flamability

Flame Rating  
0.0630 in 1.60mm HB  
Test Method UL94

