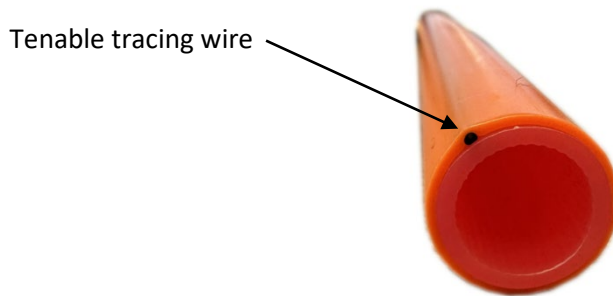


SA-MDB-603508 HDPE Silicon Duct 60.3/50.8mm(2.35"/2")SPEC

Overview

Φ60.3/50.8mm(2.35"/2") polyethylene tubes with smooth inner wall to reduce friction
 Low friction internal coating for maximum fiber blowing distance



Feature

| | |
|-----------------|----------------------------------|
| Materials: | HDPE (High-density Polyethylene) |
| Diameter (D/d): | 60.3/50.8mm(2.35"/2"), SDR11 |
| Color options: | Fully colored |
| Inner surface: | Smooth with silicon |

SPECIFICATION

✧ Raw materials

HDPE of a high-molecular type with the following parameters is used for production of the micro duct:

| | | |
|---|------------------------------|-------------|
| ● Melt flow index | 0.1~ 0.3 g/10 minutes | EN ISO 1133 |
| | (190 C , 2.16KG) | |
| ● Density: | Min. 0.940 g/cm ³ | ISO 1183 |
| ● Tensile strength at yield: | Min. 21MPa | ISO 527 |
| ● Elongation at the break: | Min 350% | ISO 527 |
| ● Environmental stress crack resist (F50) | Min. 350 hours | ISO 4599 |

✧ Dimension:

| | Outer dia. (mm) | Wall thickness (mm) | Ovality (%, before coiled) |
|---------------------------------|----------------------|------------------------|-------------------------------|
| Microduct 60.3/50.8mm(2.35"/2") | 60.3 (-0.0, +0.4) | 4.75 (-0.0, +0.35) | ≤5 |

✧ **Physical and Chemical Properties**

| | Items | Specification | Test method |
|---|-----------------------------------|----------------------|---|
| 1 | Hardness of Outer Wall(Shore-D) | ≥59 | Sheath the 100mm length duct sample tightly around the metallic bar with a suitable outer diameter and put them just below the Hardness Meter of Shore-D. As per the method indicated in the GB/T 2411-1980 Standard, read the instant Hardness value is testing result. Totally read for 5 times, the average arithmetical value will be the final result. |
| 2 | Internal Co-efficient of Friction | ≤0.12 | Perform the testing according to the Appendix D of GB/T 24456-2009 Standard. |
| 3 | Tensile Strength at Yield | ≥21MPa | Hold the sample on the tester respectively with the tensile speed of 100mm/min, till the 5 samples are broken off by the pulling force, make the note of the maximal tensile value as the testing results during the tensile process, the average arithmetical value of these 5 effective results will be the final result. |
| 4 | Elongation at break | ≥380% | |
| 5 | Max Pulling Load | ≥11,000N | Take the complete duct sample of 200mm length, both ends of sample should be cut neatly. Then use the special clamp to hold it onto the tester with the tensile speed of 450mm/min till the sample yields, read the yield loading as the testing result. Totally read for 3 times, the average arithmetical value will be the final result. |
| 6 | Bending Radius after cooling | 625mm | Place sample of 1.5m length at -20℃ environment for more than 2 hours, and then take it out and put it onto the bending machine with 625mm radius within 1 minute to perform the testing of bending towards four directions, the surface of duct has no crack. |
| 7 | Ring Stiffness | ≥40kN/m ² | Perform the testing according to clause 6.5.2 of YD/T 841-1996 Standard. |
| 8 | Crush test | - | Crush the 200mm length sample at speed of 5mm/min till the deformation value of outer diameter is 50% of the original, remove the loading, the duct should not crack or layered. |

| | | | |
|----|------------------------|--------|---|
| 9 | Longitudinal Reversion | ≤3.0% | As per the testing method B of GB/T 6671-2001 Standard, the temperature of oven is 110°C. |
| 10 | Impact Strength | - | Place 10 sample of 150mm length at -30 °C environment for more than 2 hours, and then take it out and drop a 15.3Kg hammer from 2.0 meters height to it within 30 seconds, the structure and size of hammer complies with the GB/T 24456-2009 Standard. |
| 11 | Air Pressure | 1.6MPa | - |

✧ **Storage:**

Completed packages of the HDPE Silicon Duct on drums can be stored outdoor max. 12months upon the date of production.

Storage temperature: -40°C ~ +70°C
 Installation temperature: -20°C ~ +50°C
 Operating temperature: -40°C ~ +70°C

Packaging information

| 60.3/50.8mm(2.35/2 inch) | Nom.OD(m m) | Oversheath(M M) | Weight(kg/k m) | Length/reel(m) | Number of reels in 40' |
|--------------------------|-------------|-----------------|----------------|----------------|------------------------|
| Single Tube | 60.3 | 4.75 | 590 | 1500 | 9 |

Order information

Technity P/N: SA-MDB-603508-OR-TR

SA: SureAlign brand

MDB: Micro Duct series

603508: 60.3/50.8 mm duct

OR: color of over sheath, default is Orange, 12 colors can be selected.

TR: with tracing wire and rip cords, optional

