

Polyethylene Tubing

Construction & Approvals

Flame resistant polyethylene is manufactured from a distinctively formulated compound which meets the UL94 V-2 flame classification. It also meets the flame spread, fuel contribution and smoke density requirements of the ASTM E84-81a tunnel test.

Applications

Schrader Bellows series FRPE tubing is the preferred product for pneumatic control applications in the heating-ventilating-air conditioning-energy conservation industry. It is also suitable for use in petrochemical plants, petroleum refineries, pulp and paper mills, mines, steel mills and other industries where protection against intermittent flame and hot sparks is necessary.

Temperature Range

Suggested operating temperature range is -85°F to +150°F (-65°C to + 66°C).

Nomenclature

Order by tubing part number and name.

Example:

FR PE 4 — 0500
 Flame Resistant _____
 Polyethylene _____
 1/4" (4/16) Tube O. D. _____
 Reel Footage _____

Flame resistant tubing FRPE

| Part No. | Color | O.D. | I.D. | Wall | Reel Length Feet | Working Pressure psi at 73°F | Min. Burst psi at 73°F | Min. Bend Radius Inches | Weight Per 100 Feet |
|--------------|-------|------|------|------|------------------|------------------------------|------------------------|-------------------------|---------------------|
| FRPE2.5-0500 | Black | 5/32 | .096 | .030 | 500 | 180 | 900 | 1/2 | .56 |
| FRPE4-0250 | Black | 1/4 | .170 | .040 | 250 | 130 | 650 | 3/4 | 1.20 |
| FRPE4-0500 | Black | 1/4 | .170 | .040 | 500 | 130 | 650 | 3/4 | 1.20 |
| FRPE4-1000 | Black | 1/4 | .170 | .040 | 1000 | 130 | 650 | 3/4 | 1.20 |
| FRPE6-0250 | Black | 3/8 | .250 | .062 | 250 | 180 | 900 | 1-1/2 | 2.90 |
| FRPE6-0500 | Black | 3/8 | .250 | .062 | 500 | 180 | 900 | 1-1/2 | 2.90 |
| FRPE8-0250 | Black | 1/2 | .375 | .062 | 250 | 130 | 650 | 1-3/4 | 4.00 |

Advantages & Construction

Schrader Bellows series HDPE is manufactured from high strength, high density polyethylene. This semi-rigid tubing is inherently resistant to most chemicals, less easily cut or damaged and has a higher burst pressure rating than series "E" tubing.

Applications & Approvals

HDPE tubing is recommended with FT fittings for maximum performance. Material meets NFS std 14 for potable water use.

Temperature Range

Suggested operating temperature range is -80°F to +175°F (-62°C to +80°C).

Nomenclature

Order by tubing part number and name.

High density tubing HDPE

| Part No. | Color | O.D. | I.D. | Wall | Reel Length Feet | Working Pressure psi at 73°F | Min. Burst psi at 73°F | Min. Bend Radius Inches | Weight Per 100 Feet |
|--------------|-------|------|------|------|------------------|------------------------------|------------------------|-------------------------|---------------------|
| HDPE-43-0250 | Black | 1/4 | .170 | .040 | 250 | 300 | 1200 | 1-1/2 | 1.1 |
| HDPE-43-0500 | Black | 1/4 | .170 | .040 | 500 | 300 | 1200 | 1-1/2 | 1.1 |
| HDPE-64-0250 | Black | 3/8 | .250 | .062 | 250 | 300 | 1200 | 2-1/2 | 2.5 |
| HDPE-64-0500 | Black | 3/8 | .250 | .062 | 500 | 300 | 1200 | 2-1/2 | 2.5 |