



DMfit tubing is produced from an advanced grade of low density polyethylene. Its greatest advantage is superior environmental stress cracking resistance (**ESCR**), greatly exceeding that of ordinary polyethylene tubing as measured by **ASTM D-1693 (IGEPAL)** tests. Environmental stresses that can shorten the service life of tubing include chemical exposure, aging connections with barb-type fittings, or high vibration loads with connections to compression fittings.

Our tubing is compliant to **ANSI / NSF-51, 61, WRAS** and **FDA** requirements for food contact applications. Our tubing is available in multiple coding colours, and offers the user:

- Dimensional stability.
- Uniformity and long-term strength.
- Higher burst pressure.
- Greater tensile strength.
- Wide range of available colours.
- Suitable for use with DMfit products and those of other manufacturers.

Colour options: blue, yellow, white, natural, black, red, grey and green.

■ Resistance of chemical characteristics for Tube.

| Name of chemical | Polyethylene | Remarks | Name of chemicals | Polyethylene | Remarks |
|--------------------|--------------|--------------------|---------------------------|--------------|---------|
| Air | ⊙ | | Hexane | △ | |
| Alcohol | ⊙ | | Hydrogen gas | ⊙ | |
| Ammonia gas | ⊙ | | Lighting gas | △ | |
| Ammonia liquid | ○ | high temperature △ | Mercury | ⊙ | |
| Beer | ⊙ | | Methanol (Methyl Alcohol) | ⊙ | |
| Benzene | △ | | Milk | ⊙ | |
| Bromine liquid | × | | Molasses | ⊙ | |
| Carbon dioxide gas | ○ | | Nickel salts | ⊙ | |
| Caustic soda | ○ | | Oils, essential | △ | |
| Diesel fuel | △ | | Propane gas | △ | |
| Ethyl alcohol | ○ | high temperature △ | Spindle Oil | △ | |
| Fluor gas, dry | × | | Water, high-purity | ⊙ | |
| Fuel Oil | △ | | | | |

※ : Very acceptable, ○: Acceptable, △: Slightly unacceptable, ×: Very unacceptable
 ※ Differences in data can exist due to extended duration and elevated temperature (Standard data reflects use at ambient temperature.)
 ※ Consult our representative when using unsuitable liquids.

Working Pressure and Temperature

| Parameter | Size | 5/32" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
|-----------------|------|--|-------|------|---------|------|------|
| | | 4mm | 5mm | 6mm | 8mm | 10mm | 12mm |
| Pressure | | 230 psi | | | 170 psi | | |
| Tube Tolerances | | -0.1mm / +0.1mm | | | | | |
| Temperature | | Air -20°C(-4°F) ~ 65°C(150°F) Liquid | | | | | |

※ Pressure values are based on PE tube used at room temperature.
 ※ Consult our representative when using at continuous elevated temperature and pressure.