

LLDPE TUBES



DMfit® tubing is produced from an advanced grade of LLDPE. 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 colors, and offers the user :

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

Working Pressure and Temperature

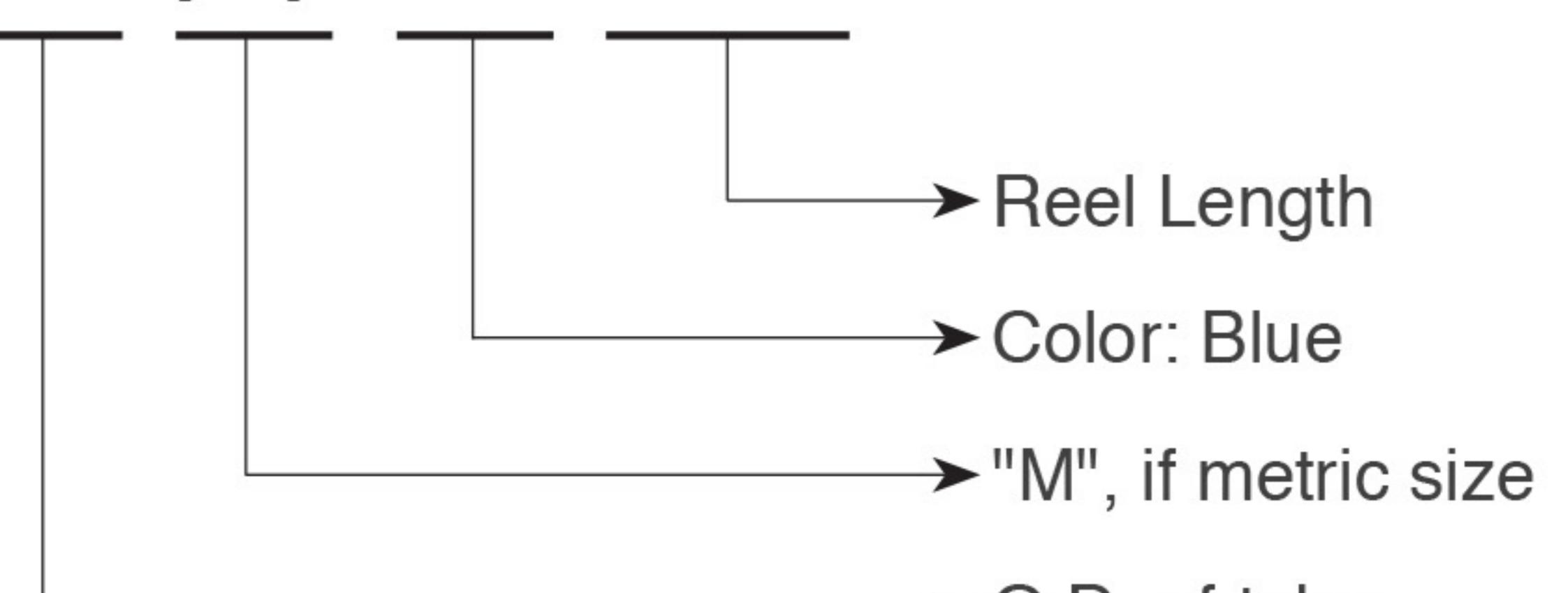
Parameter	Size	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"
		4mm	5mm	6mm	8mm	10mm	12mm
Pressure	230 psi			170 psi			
Tube Tolerances	-0.1mm / +0.1mm						
Temperature	Air	-20°C(-4°F) ~ 65°C(150°F)			Liquid		

※ Pressure values are based on PE tube used at room temperature.

※ Consult our representative when using at continuous elevated temperature and pressure.

Order Information

DPE 04 (M) - B - 0500



Colors Available

Suffix	Color	LLDPE													PE-RT	
		5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	4mm	5mm	6mm	8mm	10mm	12mm	15mm	1/4"	5/16"
B	Blue	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y	Yellow	○	○	○	○	○	○	○	○	○	○	○	○	○		
W	White	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
N	Natural	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BK	Black	○	○	○	○	○	○	○	○	○	○	○	○	○		
R	Red	○	○	○	○	○	○	○	○	○	○	○	○	○		
GR	Gray	○	○	○	○	○	○	○	○	○	○	○	○	○		
G	Green	○	○	○	○	○	○	○	○	○	○	○	○	○		

Inch Size

Part No.	Material	O.D.In.	I.D. In.	Wall	Reel Length (Meter)
DPE 01	LLDPE	5/32"	0.094	0.031	500
DPE 03	LLDPE	3/16"	0.125	0.031	400
DPE 04	LLDPE	1/4"	0.17	0.04	300
DPE-RT 04	PE-RT	1/4"	0.17	0.04	300
DPE 05	LLDPE	5/16"	0.216	0.048	200
DPE-RT 05	PE-RT	5/16"	0.216	0.048	200
DPE 06	LLDPE	3/8"	1/4"	0.062	150
DPE 07	LLDPE	1/2"	3/8"	0.062	100

Metric Size

Part No	Material	O.D.In.	I.D. In.	Wall	Reel Length (Meter)
DPE 04M	LLDPE	4	2.5	0.75	500
DPE 05M	LLDPE	5	3.5	0.75	400
DPE 06M	LLDPE	6	4	1	300
DPE 08M	LLDPE	8	6	1	200
DPE 10M	LLDPE	10	7	1.5	150
DPE 12M	LLDPE	12	9	1.5	100
DPE 12M	LLDPE	12	9	1.5	100
DPE 15M	LLDPE	15	11.5	1.75	70

TC - Tube Cutter

- **DMfit®** Tube Cutter with quality blade is suitable for cutting plastic tubing sizes up to 13mm.



CHEMICAL COMPATIBILITY TABLES

DMfit® has excellent resistance to exposure to organic compounds, industrial chemicals, and gases.

■ Resistance of chemical characteristics for plastic resins & elastomers.

Description (%), °C	Brass	SUS	Resin		Rubber	
			Acetal	PP	NBR	EPDM
Caustic soda(10%, 20°C)	△	△	◎	○	○	◎
Gasoline	○	○	◎	△	◎	×
Formic acid(25%, 20°C)	×	△	×	◎	○	◎
Air	◎	◎	◎	◎	◎	◎
Mineral oil	○	○	◎	○	○	×
Grease	○	○	◎	△	○	×
Sodium silicate	○	-	◎	○	○	◎
Glycerin	○	○	◎	○	○	○
Ozone	○	○	△	△	○	○
Animal oil(Lard oil)	○	-	◎	○	○	○
Kerosene	◎	◎	◎	○	○	×
Methane	○	-	◎	○	○	×
Methyl alcohol(Methanol)	◎	△	○	○	○	◎
Water(24°C)	○	○	◎	○	○	○
Water(100°C)	×	○	△	△	-	-
Sea water	△	○	◎	○	-	-
Bunker oil	△	-	-	○	○	-
Benzene(Benzol)	×	△	○	△	×	×
Butane	◎	◎	◎	○	○	×
Fluorine	×	×	×	×	-	△
Boric acid	○	○	○	○	○	○
Carbon tetrachloride	△	△	○	△	△	×
Oxygen	◎	◎	○	○	○	○
Petroleum	-	-	○	×	○	×
Soda ash(Sodium carbonate)	○	△	◎	○	○	○
Calcium hydroxide	△	△	◎	○	○	○
Hydrogen	△	○	◎	○	○	○
Mercury	×	-	-	○	○	○
Steam(150°C)	○	-	△	×	×	○
Sodium cyanide	×	-			○	○
Vegetable oil	-	-	○	○	○	○
Silicone greases	-	-	◎	△	○	○
Silicone oil	-	-	◎	△	○	○
Acetone	◎	△	○	△	×	○
Sulfurous acid gas	-	-	△	○	○	○
Ammonia	△	○	○	○	○	○
Liquified petroleum gas(LPG)	◎	○	○	○	○	×
Ethyl alcohol(Ethanol)	◎	○	○	○	○	○

* ◎ : Very acceptable ○ : Acceptable △ : Slightly Unacceptable × : Unacceptable - : No data

Description (%), °C	Brass	SUS	Resin		Rubber	
			Acetal	PP	NBR	EPDM
Lye solution	-	-	◎	○	○	◎
Hydrochloric acid(10%, 20°C)	×	×	○	◎	-	-
Hydrochloric acid(20%, 20°C)	×	×	△	○	-	-
Hydrochloric acid(20%, 80°C)	×	×	×	×	×	△
Hydrochloric acid(38%, 20°C)	×	×	△	○	○	◎
Ammonium chloride	×	△	○	○	○	○
Calcium chloride	○	△	○	○	○	○
Naphtha	△	○	○	△	△	×
Olive oil	△	○	○	○	○	○
Sulfur	×	○	○	○	×	○
Sodium phosphate	×	△	○	○	○	○
Ammonium phosphate	△	△	○	○	○	○
Ammonium nitric	×	○	○	○	○	○
Nitrogen	○	○	○	○	○	○
Natural gas	○	○	○	○	○	×
Acetic acid(10%, 20°C)	-	-	-	-	-	-
Acetic acid(50%, 20°C)	-	-	-	-	-	-
Acetic acid(50%, 70°C)	-	-	-	-	-	-
Acetic acid(100%, 20°C)	-	-	-	-	-	-
Ketones	○	○	○	○	-	○
Cresol	○	△	△	○	△	×
Chromic acid(2%, 70°C)	×	×	×	△	-	-
Chromic acid(10%, 70°C)	×	×	×	×	-	-
Chromic acid(25%, 70°C)	×	×	×	×	-	-
Chromic acid(2%, 50°C)	×	×	△	△	×	○
Soybean oil	△	○	○	○	○	△
Toluene	○	○	○	△	×	×
Glucose	○	○	○	○	○	○
Propane	○	○	○	○	○	×
Castor oil	○	○	○	○	○	○
Sulfuric acid(10%, 20°C)	×	×	○	○	×	○
Sulfuric acid(10%, 70°C)	×	×	×	△	-	-
Sulfuric acid(30%, 20°C)	×	×	△	○	-	-
Sulfuric acid(30%, 70°C)	×	×	×	△	-	-
Sulfuric acid(98%, 20°C)	×	×	×	×	-	-
Aluminium sulfate	×	○	○	○	○	○
Potassium sulfate	○	△	○	○	○	○
Hydrogen sulfide	△	△	○	○	×	○

* ◎ : Very acceptable ○ : Acceptable △ : Slightly Unacceptable × : Unacceptable - : No data

■ Resistance of chemical characteristics for Tube.

Name of chemical	Polyethylene	Remarks
Air	◎	
Alcohol	◎	
Ammonia gas	◎	
Ammonia liquid	○	high temperature△
Beer	◎	
Benzene	△	
Bromine liquid	×	
Carbon dioxide gas	○	
Caustic soda	○	
Diesel fuel	△	
Ethyl alcohol	○	high temperature△
Fluor gas, dry	×	
Fuel Oil	△	

Name of chemicals	Polyethylene	Remarks
Hexane	△	
Hydrogen gas	◎	
Lighting gas	△	
Mercury	◎	
Methanol (Methyl Alcohol)	◎	
Milk	◎	
Molasses	◎	
Nickel salts	◎	
Oils, essential	△	
Propane gas	△	
Spindle Oil	△	
Water, high-purity	◎	

* : 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.