Product Features and Benefits

POLYTUFF® Liquidtight Conduit

PolyTuff II Tubing–Black

PVC core with corrugated walls bonded to PVC jacket.

Handles twists, turns, bends, switchbacks and straightaways with ease.

All nonmetallic construction ends fatigue and separation problems.

Can be cut with a knife or PVC cutters.

UL Recognized and CSA Certified.

IP66
SUITABILITY

PolyTuff II Tubing

Trade Size (metric designator)	Catalog Numbers	Feet (m)
1/4" (10)	**B2025**	100 (30.5)
3/8" (12)	**B2038**	100 (30.5)
1/2" (16)	**B2050**	100 (30.5)
3/4" (21)	**B2075**	100 (30.5)
1" (27)	**B2100**	100 (30.5)
1 1/4" (35)	**B2125**	100 (30.5)
1 1/2" (41)	**B2150**	50 (15.2)
2" (53)	**B2200**	50 (15.2)

Note: See pages T-114 to T-115 for additional technical data and dimensional drawings.

Dimensions in Inches (mm)

Non-metallic Liquidtight Conduit and Tubing

Technical Data

POLYTUFF®

PolyTuff I Conduit

Operating Temperature Range	
Wet environment	0°F to +140°F (-18°C to +60°C)
Oil environment	0°F to +158°F (-18°C to +70°C)
Dry environment	0°F to +176°F (-18°C to +80°C)
Certifications	
UL Listed	UL Standard 1660. Sunlight resistant approved for outdoor use, direct burial.
CSA Certified	Meets requirements of NEC.
Voltage Rating	
Maximum	600V
Material	
Conduit	Co-extruded rigid and flexible PVC.

PolyTuff II Tubing

Operating Temperature Range	
Operating Environment	0°F to +140°F (-18°C to +60°C)
Certifications	
UL Recognized CSA Certified	
Voltage Rating	
Maximum	Same as wire insulation rating.
Material	
Tubing	Co-extruded rigid and flexible PVC.

PolyTuff I Conduit

Trade Size (metric designator)	Conduit ID/OD Inches	(mm)	Bend Radius Inches	(mm)
3/8" (12)	.49"/.70"	(12.6/17.8)	2.00"	(50.8)
1/2" (16)	.63"/.83"	(16.1/21.1)	3.00"	(76.2)
3/4" (21)	.83"/1.04"	(21.1/26.4)	4.00"	(101.6)
1" (27)	1.05"/1.30"	(26.0/33.1)	5.00"	(217.0)
1 1/4" (35)	1.40"/1.65"	(35.4/41.8)	6.30"	(158.8)
1 1/2" (41)	1.59"/1.88"	(40.3/47.8)	7.50"	(190.5)
2" (53)	2.03"/2.36"	(51.6/59.9)	10.00"	(254.0)

PolyTuff II Tubing

Trade Size (metric designator)	Conduit ID/OD Inches	(mm)	Bend Radius Inches	(mm)
1/4"(10)	.36"/.57"	(9.3/14.5)	1.50"	(38.1)
3/8" (12)	.49"/.70"	(12.6/17.8)	2.00"	(50.8)
1/2" (16)	.63"/.83"	(16.1/21.1)	2.00"	(50.8)
3/4" (21)	.83"/1.04"	(21.1/26.4)	3.00"	(76.2)
1" (27)	1.05"/1.30"	(26.0/33.1)	3.00"	(76.2)
1 1/4" (35)	1.40"/1.65"	(35.4/41.8)	5.00"	(127.0)
1 1/2" (41)	1.59"/1.88"	(40.3/47.8)	5.00"	(127.0)
2" (53)	2.03"/2.36"	(51.6/59.9)	5.00"	(127.0)

PolyTuff I and II Conduit/Tubing; PVC Chemical Resistance

Chemical	Conc*	Temp. 70°F 21°C	150°F 66°C
Acetate Solvents		D	D
Acetic Acid		B	C
Acetic Acid (Glacial)		C	D
Acetone		D	D
Acrylontrile		A	B
Alcohols (Aliphatic)		C	C
Aluminum Chloride		A	A
Aluminum Sulfate (Alums)		A	A
Ammonia (Anhydrous Liquids)		D	D
Ammonia (Aqueous)		A	A
Ammoniated Latex		A	C
Ammonium Chloride		A	A
Ammonium Hydroxide		A	A
Amyl Acetate		D	D
Aniline Oils		D	D
Aromatic Hydrocarbons		D	D
Asphalt		D	D
ASTM Fuel A		C	C
ASTM Fuel B		D	D
ASTM #1 Oil		B	C
ASTM #3 Oil		C	D
Barium Chloride		A	A
Barium Sulfide		A	A
Barium Hydroxide		A	A
Benzene (Benzol)		D	D
Benzine (Petroleum Ether)		C	C
Black Liquor		A	A
Bordeaux Mixture		A	A
Boric Acid		A	A
Butyl Acetate		D	D
Butyl Alcohol		B	C
Calcium Hydroxide		A	A
Calcium Hypochlorite		A	A
Carbolic Acid (Phenol)		B	C
Carbon Dioxide		A	A
Carbon Disulfide		D	D
Carbon Tetrachloride		D	D
Carbonic Acid		A	A
Casein		A	C
Caustic Soda		A	B
Chlorine Gas (wet)		D	D
Chlorine Gas (dry)		D	D
Chlorine (water solution)		C	D
Chlorobenzene		D	D
Chlorinated Hydrocarbons		D	D
Chromic Acid		B	C
Citric Acid		A	A
Coal Tar		D	D
Coconut Oil		C	D
Corn Oil		A	B
Cottonseed Oil		C	D
Creosote		D	D
Cresol		C	D
Crysylic Acid		D	D
Cyclohexane		B	C
DDT Weed Killer		A	C
Dibutyl Phthalate		D	D
Diesel Oils		C	D
Diethylene Glycol		B	C
Diethyl Ether		A	C
Di-isodecyl Phthalate		D	D
Dioctyl Phthalate		D	D
Dow General Weed Killer (Phenol)		D	D
Dow General Weed Killer (H_2O)		B	C
Ethyl Alcohol		C	C
Ethylene Dichloride		D	D
Ethylene Glycol		B	C
Ferric Chloride		A	A
Ferric Sulfate		A	A
Ferrous Chloride		A	A
Ferrous Sulfate		A	A
Formaldehyde		D	D
Fuel Oil		B	C
Furfural		C	C
Gallic Acid		A	A
Gasoline (Hi Test)		C	D
Glycerine		A	A
Grease		A	C
Green Sulfate Liquor		A	A
Heptachlor in Petroleum Solvents		A	C
Heptane		C	D
Hexane		C	D
Hydrobromic Acid		A	A
Hydrochloric Acid	10%	A	A
Hydrochloric Acid	40%	C	C
Hydrofluoric Acid	70%	D	D
Hydrofluorosilicic Acid		A	A
Hydrofluorosilicic Acid	10%	A	A
Hydrogen Peroxide		A	B
Iso-Octane		C	C
Isopropyl Acetate		D	D
Isopropyl Acid		B	C
Jet Fuels (JP-3, and 5)		C	D
Kerosene		C	C
Ketones		D	D
Linseed Oil		A	A
Lubricating Oils		A	A
Magnesium Chloride		A	A
Magnesium Hydroxide		A	A
Magnesium Sulfate		A	A
Malathion 50 in Aromatics		D	D
Malic Acid		A	A
Methyl Acetate		D	D
Methyl Alcohol		C	C
Methyl Bromide		D	D
Methyl Ethyl Ketone		D	D
Methylene Chloride		D	D
Mineral Oil			
Monochlorobenezene		A	A
Muriatic Acid (see Hydrochloric Acid)			
Naphtha		C	D
Naphthalene		D	D
Nitric Acid	10%	A	B
Nitric Acid	35%	A	C
Nitric Acid	70%	D	D
Oleic Acid		A	C
Oleum		D	D
Oxalic Acid		A	A
Pentachlorophenol in Oil		B	C
Pentane		C	D
Perchloroethylene		B	C
Petroleum Ether		C	C
Phenol		A	A
Phosphoric Acid	10%	A	A
Pitch	50%	A	B
Potassium Hydroxide		C	D
Sodium Cyanide		A	A
Stoddard Solvent		D	D
Styrene		D	D
Sulfur Dioxide (liquid)		D	D
Sulfuric Acid	50%	A	B
Sulfuric Acid	98%	D	D
Sulfurous Acid		B	C
Tall Oil		D	D
Tannic Acid		A	A
Toluene		D	D
Trichlorethylene		D	D
Triethanol Amine		C	D
Tricresyl Phosphate (Skydrol)		D	D
Turpentine		C	D
Vinegar		A	B
Vinyl Chloride		D	D
Water		A	A
White Liquor		A	A
Xylene		D	D
Zinc Chloride		A	A
Zinc Sulfate		A	A

(All ratings apply to concentrated or saturated solutions unless otherwise specified.)

Chemical resistance ratings are based upon information supplied by the raw material manufacturers. Use as a general guide only – samples should be tested by user under actual conditions.

**Conc. - Concentration*

Rating Code

A-Excellent service
No harmful effect to reduce service life. Suitable for continuous service.

B-Good service life.
Moderate to minor effect. Good for intermittent service. Generally suitable for continuous service.

C-Fair or limited service.
Depends on operating conditions. Generally suitable for intermittent service. Not recommended for continuous service.

D-Unsatisfactory service.
Not recommended.