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## Proto PVC Fitting Covers

### Submittal MSDS

### Description

The Proto® Fitting Cover System consists of one-piece, pre-molded, high-impact PVC fitting covers with fiber glass inserts and accessories. Accessories are elbows, tee/valves, end caps, mechanical line couplings, specialty fittings, jacketing, tacks, and PVC tape.



### Application

The Proto Fitting Cover System is used to insulate mechanical piping systems at fitting locations. It provides PVC jacketing for straight run piping and gives a quality appearance and excellent durability.

### Features and Benefits

#### Fire and Smoke Safety

- Proto PVC Fittings do not exceed 25 Flame Spread, 50 Smoke Developed.
- Roll jacketing is available in 25/50-rated or indoor/outdoor grade.
- The 25/50 products meet most fire and safety requirements of federal state and local building codes.

#### UV Resistant

- Use indoors or outdoors.
- Paint outdoor fittings to enhance UV and colorfast protection.

#### Excellent Appearance

- Bright high-gloss white coloring adds a distinct quality appearance to the system.

#### Easy to Clean

- The smooth high-gloss surface cleans easily with soap and water.
- Ideal system for food and drug facilities.

#### Low-Cost Installation

- Significant cost savings vs. conventional cement, molded sections and mitered sections.

#### Fast and Easy

- At fitting locations, the fiber glass insert is wrapped around the pipe fitting, the Proto PVC Fitting is applied over the insert and then tacked or taped.

#### Wide Temperature Range

- For mechanical piping systems operating to 500°F (260°C)

#### Long Lasting

- Can be used more than once on retrofit projects, general maintenance.

#### Excellent Thermal Value

- Low thermal conductivity value of 0.26 at 75°F (0.037 W/m<sup>2</sup>•°C) mean temperature.
- Better thermal efficiency than conventional cement fittings.

### Website Options

#### Language

[English \(United States\)](#)  
[français \(Canada\)](#)

#### Links To Other Country Sites

#### Search

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[www.knaufinsulation.com](http://www.knaufinsulation.com)  
[www.knauf.com](http://www.knauf.com)

## Resistant to Fungi and Bacteria

- Does not promote growth of fungi or bacteria.

## Specification Compliance

### In U.S.: Federal (Polyvinyl Chloride)

- LP-1035A; Type II Grade GU and Type III
- LP-535E; Type II Grade GU and Type III
- New York City MEA 243-84-M, Chicago, Los Angeles
- ASTM C 585 (Sizes)
- United State Department of Agriculture

### In Canada:

- AC 774.1K82

## Physical Properties (PVC)

### Specific Gravity (ASTM D 792)

- 1.41

### Tensile Modulus (ASTM D 638)

- 381,000 psi

### Tensile Strength (ASTM D 638)

- 6,000 psi

### Flexural Strength (ASTM D 790)

- 1,175 psi

### IZOD Impact (0.25") ft. (ASTM D 256)

- 16.8 lb. per inch of notch

### Heat Deflection (ASTM D 648)

- 159°F (70°C) @ 264 psi

## Water Vapor Transmission

### Mocon Permatran W-1 Method (ASTM E 96 (Equiv.)) (U.S. Perms)

- 100°F (38°C) & 90% relative humidity:
  - .007" (.177 mm) thick = .19
  - .009" (.228 mm) thick = .15
  - .022" (.558 mm) thick = .07
- 73°F (23°C) & 50% relative humidity:
  - .006" (.152 mm) thick = .19
  - .010" (.254 mm) thick = .13
  - .022" (.558 mm) thick = .09

### Puncture Resistance(TAPPI Test T803) (Beach Units)

- .006" (.152 mm) thick = 78
- .015" (.381 mm) thick = 221

## THERMAL EFFICIENCY OF INSERT (ASTM C 177)

Mean Temperature	Mean Temperature (SI)	k	k (SI)
100°F	38°C	.28	.040
200°F	93°C	.38	.055
300°F	149°C	.52	.075
400°F	204°C	.70	.101
500°F	260°C	.90	.130