



Only the best is always safe.



PRODUCT SOLUTIONS LTD

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## ECONO-GARD® SAFETY SHIELDS

**PREVENT DANGEROUS SPRAYOUTS OF HAZARDOUS CHEMICALS**

*ECONOMICAL BUT DEPENDABLE*



**PVC SAFETY SHIELD**



**PE SAFETY SHIELD**

- APPLICATIONS IN SYSTEMS CARRYING CERTAIN CHEMICALS, SUCH AS CONCENTRATED ACIDS, AT LOW TEMPERATURE AND PRESSURE
- OVERLAP DESIGN THAT WRAPS AROUND THE PIPE JOINT COMPLETELY PREVENTING BOTH FRONTAL AND LATERAL SPRAYOUTS
- PHYSICAL CHARACTERISTICS
  - TEMPERATURE UP TO 140F (60C)
  - PVC PRESSURE RESISTANCE 435 PSI (30 BAR)
  - PE PRESSURE RESISTANCE 350 PSI (24 BAR)
  - INHIBITED AGASINT UV DEGRADATION
- AVAILABLE FOR PIPING CONNECTIONS OF ALL ANSI AND INTERNATIONAL STANDARDS AS WELL AS SPECIAL SIZES OR CONFIGURATIONS

**RAMCO® MANUFACTURING COMPANY INC.**

**365 CARNEGIE AVE.**

**KENILWORTH, NJ 07033**

**908-245-4500 p**

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**info@ramco-safetyshields.com**



TFE SPRA GARD





## A UNIQUE “SEE THRU” SAFETY SHIELD: CLEAR PVC ECONO-GARD® SHIELDS

**PREVENT DANGEROUS SPRAYOUTS OF  
HAZARDOUS CHEMICALS**

*Ensure Environmental Safety in the Workplace*



- The same high quality characteristics of the **RAMCO® ECONO-GARD® Shield** with the added benefit of a “See-Thru” feature
- Permits easy visual inspection of pipe joints — flanges, valves and threaded connections
- Physical characteristics:
  - Temperatures up to 140° F (60° C)
  - Pressure resistance up to 300 PSI
- Appropriate for systems carrying certain chemicals, such as concentrated acids, at low temperatures and psi
- Features an overlap design that wraps around the pipe joint completely, preventing both frontal and lateral sprayouts
- Crafted by intensive heat sealing methods
- Available in all ANSI and International Standards and special sizes or configurations

**“ONLY THE BEST IS ALWAYS SAFE”**

**RAMCO® MANUFACTURING CO., INC.**

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## **RAMCO® ECONO-GARD® PRODUCT SPECIFICATIONS**

### **TECHNICAL REQUIREMENTS**

The RAMCO® ECONO GARD® Safety Shield is fabricated for use on flanges, valves, threaded connections, pumps, flow meters or special applications. It is designed to prevent injury to personnel or damage to adjoining equipment in the event of a sprayout or leak at a joint or connection.

1.1 The ECONO GARD® Safety Shield is manufactured out of non-porous RED, WHITE or YELLOW polyvinyl chloride, also available in BROWN or TRANSLUCENT polyethylene.

Tie-down cords to be made of 100% polypropylene, black in color, with a diameter no smaller than 0.125 inch.

The ECONO GARD® Safety Shield shall be of adequate width to extend beyond the flange bolts and tie down to the pipe on either side of the connection flange face.

1.2 The Safety Shield to withstand temperatures up to 140°F (60°C) and pressures up to 435 psi. (30 bar)

The Safety Shield shall indicate the presence of a leak by means of a pH indication patch.

1.3 When subjected to flame, the material of construction should not produce any toxic or corrosive fumes or by-products. The ECONO GARD® Safety Shield and tie-down cords should be self-extinguishing, non-flammable and non-combustible.

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## **RAMCO® PER(Polyethylene Reinforced) ECONO-GARD®** **PRODUCT SPECIFICATIONS**

The RAMCO® PER Safety Shield is fabricated for use on flanges, valves, threaded connections, pumps, flow meters or special applications. It is designed to prevent injury to personnel or damage to adjoining equipment in the event of a sprayout or leak at a joint or connection.

The RAMCO® PER Econo-Gard Safety Shield is a 3 layer laminated non-porous, translucent polyethylene with white reinforcement cord within the laminated layers to resist tearing.

Tie-down cords to be made of 100% polypropylene, black in color, with a diameter no smaller than 0.125 inch.

The PER Econo-Gard Safety Shield shall indicate the presence of a leak by means of a pH indication patch.

The PER Econo-Gard® Safety Shield shall be of adequate width to extend beyond the flange bolts and tie down to the pipe on either side of the connection flange face.

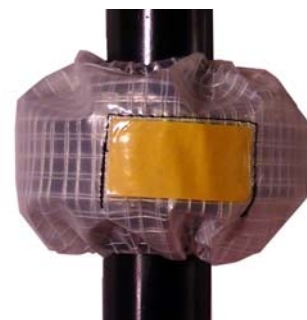
The PER Econo-Gard Safety Shield to withstand temperatures up to 140°F (60°C) and pressures up to 435 psi. (30 bar)

The PER Econo-Gard Safety Shield is treated with UV inhibitors to aid in resistance to UV degradation and exposure.

When subjected to flame, the material of construction shall not produce any toxic or corrosive fumes or by-products. The PER Econo-Gard® Safety Shield and tie-down cords shall be self-extinguishing, non-flammable and non-combustible.

Materials used in the manufacture of the RAMCO® PER Econo-Gard Safety Shield have no known effects on the environment or personnel when used properly in the applications as designed.

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## **RAMCO® PVCC ECONO GARD®** **PRODUCT SPECIFICATIONS**

### **1.0 TECHNICAL REQUIREMENTS**

The RAMCO® PVCC Safety Shield is fabricated for use on flanges, valves, threaded connections, pumps, flow meters or special applications. It is designed to prevent injury to personnel or damage to adjoining equipment in the event of a sprayout or leak at a joint or connection.

- 1.1 The RAMCO® PVCC Safety Shield is manufactured out of non-porous Clear polyvinyl chloride.

Tie-down cords to be made of 100% polypropylene, black in color, with a diameter no smaller than 0.125 inch.

The PVCC EconoGard® Safety Shield shall be of adequate width to extend beyond the flange bolts and tie down to the pipe on either side of the connection flange face.

- 1.2 The Safety Shield to withstand temperatures up to 140°F (60°C) and pressures up to 435 psi. (30 bar)

The Safety Shield shall indicate the presence of a leak by means of a pH indication patch.

- 1.3 When subjected to flame, the material of construction should not produce any toxic or corrosive fumes or by-products. The PVCC EconoGard® Safety Shield and tie-down cords should be self-extinguishing, non-flammable and non-combustible.

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## **RAMCO® PVCRCR ECONO-GARD®** **PRODUCT SPECIFICATIONS**

### **TECHNICAL REQUIREMENTS**

The RAMCO® PVCRCR ECONO-GARD® Safety Shield is fabricated for use on flanges, valves, threaded connections, pumps, flow meters or special applications. It is designed to prevent injury to personnel or damage to adjoining equipment in the event of a sprayout or leak at a joint or connection.

- 1.1 The PVCRCR ECONO-GARD® Safety Shield is manufactured out of non-porous RED polyvinyl chloride.

Tie-down cords to be made of 100% polypropylene, black in color, with a diameter no smaller than 0.125 inch.

The PVCRCR ECONO-GARD® Safety Shield shall be of adequate width to extend beyond the flange bolts and tie down to the pipe on either side of the connection flange face.

- 1.2 The Safety Shield to withstand temperatures up to 140°F (60°C) and pressures up to 435 psi. (30 bar)

The Safety Shield shall indicate the presence of a leak by means of a pH indication patch.

- 1.3 When subjected to flame, the material of construction should not produce any toxic or corrosive fumes or by-products. The PVCRCR ECONO-GARD® Safety Shield and tie-down cords should be self-extinguishing, non-flammable and non-combustible.

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## **RAMCO® PVCR(CLR)ECONO GARD®** **PRODUCT SPECIFICATIONS**

### **TECHNICAL REQUIREMENTS**

The RAMCO® PVCR(CLR) ECONOGARD® Safety Shield is fabricated for use on flanges, valves, threaded connections, pumps, flow meters or special applications. It is designed to prevent injury to personnel or damage to adjoining equipment in the event of a sprayout or leak at a joint or connection.

- 1.1 The PVCR(CLR) ECONOGARD® Safety Shield is manufactured out of non-porous red polyvinyl chloride and clear “See Thru” polyvinyl chloride.

Tie-down cords to be made of 100% polypropylene, black in color, with a diameter no smaller than 0.125 inch.

The PVCR(CLR) ECONOGARD® Safety Shield shall be of adequate width to extend beyond the flange bolts and tie down to the pipe on either side of the flange face.

- 1.2 The Safety Shield to withstand temperatures up to 140°F (60°C) and pressures up to 435 psi. (30 bar)
- 1.3 The Safety Shield shall indicate the presence of a leak by means of the clear center that provides a visual “see thru” center.
- 1.4 When subjected to flame, the material of construction should not produce any toxic or corrosive fumes or by-products. The PVCR(CLR) ECONOGARD® Safety Shield and tie-down cords should be self-extinguishing, non-flammable and non-combustible.

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