



## **InfraSafe® Sediment Control Barrier Specifications**

### **Description**

The InfraSafe Sediment Control Barrier (SCB) shall be a polyethylene product manufactured in a rotational molding process. The SCB will be set atop either a top slab access hole or the opening of a manhole cone section. The SCB shall be used during the construction phase of street or sewer projects and can then either be moved to another project or left in place for future storm events. The barrier will be manufactured with perforations in its sidewall to allow water into the manhole, yet stop sediment and debris. An opening near the top of the barrier allows greater amounts of water into the system to prevent ponding in the street during large rain events. As an option, a geotextile sock can be placed on the outside of the barrier to trap additional fines from entering the system.

### **Purpose**

Set in place, this barrier system is designed to stop sediments and debris from entering the manhole and clogging the sewer system. The frame and safety lids or grates shall be used as a temporary or permanent feature of the manhole. The purpose of the frame and safety grate or lid is to stop unauthorized entrance by people or large objects into the manhole.

### **Materials**

The InfraSafe Sediment Control Barrier shall be made of Linear Low Density Polyethylene (LL-8555/8556). LLDPE rotational-molding resins shall offer good stiffness and low temperature impact strength, excellent environmental stress crack resistance (ESCR) and warp resistance.

**Characteristics**    *Fully Formulated, High Flow  
 UV-4 Type*

### **Resin Properties**

<i>Melt Index (g/10 min)</i>	<b>6.8</b>
<i>Density (g/cm<sup>3</sup>)</i>	<b>0.935</b>

### **Typical Physical Properties**

<i>Tensile Strength</i>	
<i>@ Yield (2"/minute PSI)</i>	<b>2450</b>
<i>Ultimate Elongation (%)</i>	<b>415</b>
<i>ESCR - Condition B</i>	
<i>Hours F<sub>50</sub> (100% Igepal)</i>	<b>&gt;1000</b>
<i>Flexural Modulus</i>	
<i>@ 1% Secant (PSI)</i>	<b>84000</b>
<i>Heat Distortion</i>	
<i>@ 66 PSI (° C)</i>	<b>50</b>
<i>ARM Impact</i>	
<i>1/8" Specimen (-40° C)</i>	<b>52</b>
<i>Standard Colors</i>	<b>Orange &amp; Black</b>

**Codes and Standards**

The InfraSafe Sediment Control Barrier meets the following codes and standards:

- FDA Requirements 21CFR 177.1520
- ASTM D 1893 Measurement of Physical Properties
- ASTM D 792/1505 Density of Polyethylene Materials
- ASTM D 968 Abrasion Test
- ASTM D 1248 Polyethylene Plastics Molding and Extrusion Materials
- ASTM D 1308 Chemical Resistance
- ASTM D 2152 Acetone Immersion

**Product Accessories**

- Geotextile filter fabric – 2’ x outside of barrier wall - *Synthetic Industries or Carthage Mills*

