



## Indiana Seal Concrete Manhole Adapters Submittal Sheet

**Manhole Adapters** supplied by Indiana Seal are manufactured from a styrene-butadiene rubber (SBR) compound that meets or exceeds the applicable physical properties in ATSM C923 (table 1) specification for resilient connectors between reinforced concrete manhole structures. The manhole adapters will accommodate a wide range of PVC pipe materials in sizes from 4" through 48" diameters and are also available in custom sizes upon request.

### Manhole Adapter Product Benefits

- Engineered to prevent infiltration around the pipe entrance to manhole walls.
- The durable design and flexibility of the manhole adapter allows pipe movement without damaging the grout and seal joint.
- The adapters are particularly useful for pipe lacking compatibility with concrete.

**Joint Performance Warranty** Because of the various field conditions such as workmanship, quality of the non-shrink grout, high ground water tables that can adversely affect the manholes ability to create a water tight seal, Indiana Seal does not warrant this product as a positive water seal.

| <u>Testing</u>                                               | <u>Test Requirement</u>                                                  | <u>ASTM Test Method</u>         | <u>Typical Results</u>           |
|--------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------|----------------------------------|
| Chemical Resistance<br>1 N Sulfuric Acid<br>1 N Hydrochloric | No Weight Loss                                                           | D 543 at 22 C for 48 h          | No Weight Loss<br>No Weight Loss |
| Tensile Strength                                             | 1200 PSI Min.                                                            | D 412                           | 2059                             |
| Elongation at Break                                          | 350 PSI Min.                                                             | D 412                           | 442                              |
| Hardness                                                     | +/- 5 from Manufacturer's Spec. (50)                                     | D 2240 (Shore A Durometer)      | 52                               |
| Accelerated Oven-Aging                                       | Decrease 15% Max. of Original Tensile<br>Decrease of 20% Max. Elongation | D 573 70 +/- 1 C for 7 Days     | -5.8<br>-15.8                    |
| Compression Set                                              | Decrease Of 25% Max. of Original<br>Deflection                           | D 395 Method B at 70 C for 22 h | 9.0                              |
| Water Absorbtion                                             | Increase of 10% Max. of Original by<br>Weight                            | D 471 Immerse 0.75 x 2 in.      | 4.2                              |
| Ozone Resistance                                             | Rating 0                                                                 | D 1149, No Cracks               | No Cracks                        |
| Low Temp. Brittle Point                                      | No Fracture at -40 C                                                     | D 2137, No Cracks               | Pass                             |
| Tear Resistance                                              | 200 lbf / in.                                                            | D 624, Die B,                   | 239                              |

