

WATER ABSORPTION PROPERTIES OF SOF® ROD, HBR® BACKER ROD, HBR® XL BACKER ROD, FASTFLEX™, SOF® SEAL GASKETS, AND NOMAFLEX®

SOF Rod, HBR Backer Rod, HBR XL Backer Rod, Fastflex, SOF Seal Gaskets, and NOMAFLEX construction foam products are manufactured by Nomaco, Inc. located in Zebulon, NC. These products are designed for use as joint filler materials for a wide variety of applications including expansion/contraction joints, transverse or longitudinal roadway pavement joints, building envelop gaps, modular home marriage joints, window glazing and numerous sealant backing/ bond breaking purposes. Of course, all of these applications will expose the material to high levels of water or moisture over extended periods of time.

Manufactured from Polyethylene (PE), Polypropylene (PP) or Polyolefin Foam (olefin blend primarily including PE or PP), **Nomaco's construction foam products have the industry's highest resistance to *water absorption*, with virtually 0% absorption under extreme use or testing parameters.** *See individual specification sheets for each product to obtain the value for product desired.*

Our products meet the following ASTM Standard Specifications for *water absorption* and have been tested to the following ASTM Standard Test Methods:

ASTM Guidelines for Polyethylene/ Polyolefin - Backer Rod/ Fastflex/ SOF Seal Gaskets

- ASTM D5249 Standard Specification for Backer Material for Use with Cold- and Hot-Applied Joint Sealants in Portland-Cement Concrete and Asphalt Joints: Section 9 Test Methods, 9.1, Table 1, *Water Absorption* - < 0.5%
- ASTM C1330 Standard Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants: Section 8 Physical Properties, 8.1, Table 1, *Water Absorption* - < 0.03 g/cc
- ASTM C1016 [Standard Test Method](#) for Determination of Water Absorption of Sealant Backing (Joint Filler) Material
- ASTM C509 Standard Specification for Elastomeric Cellular Gasket and Sealing Material: Section 5 Physical Properties, Table 1, *Water Absorption* - < 5%
- ASTM C1083 [Standard Test Method](#) for Water Absorption of Cellular Elastomeric Gaskets and Sealing Materials

ASTM Guidelines for Polypropylene - NOMAFLEX

- ASTM D8139 Standard Specification for Semi-Rigid, Closed-Cell Polypropylene Foam, Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction
- ASTM D1751 Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types): Section 4. Material, 5.6 *Water Absorption* - < 15%
- ASTM D994 Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type): Section 5.3 Properties, *Water Absorption* - < 5%
- ASTM D545 [Standard Test Methods](#) for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types)

Nomaco's construction foam products offer the industries best protection from water absorption and the numerous problems associated with moisture infiltrating a construction joints. For detailed information on a specific product mentioned above, please contact us at 877-291-1157.