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- 1.0 PRODUCT:** Type I Expanded Polystyrene Foam Insulation
- 2.0 MANUFACTURER:** Kingspan Insulation LLC
- 3.0 MANUFACTURING LOCATIONS:** 12501 NW 38<sup>th</sup> Avenue  
Opa Locka, FL 33054
- 4.0 PRODUCT TYPE:** Expanded Polystyrene Foam Insulation
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**5.0 PRODUCTS ARE EVALUATED ACCORDING TO THE FOLLOWING STANDARDS:**

- 5.1 ASTM C578 “Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation” Type I

**6.0 IDENTIFICATION AND MARKINGS:**

- 6.1 Packaging of the listed product may contain the manufacturers name and address and the product name. The use of the R&D Services, Inc. (RDS) listing logo (containing the listing number), and the RDS ISO/IEC accreditations are voluntary but will be used in accordance with the listing agreement.

**7.0 DESCRIPTION OF LISTING PROGRAM:**

- 7.1 Semi-annually, RDS conducts the following tests:
- 7.1.1 Density - ASTM D1622
  - 7.1.2 Compressive Strength - ASTM C165 (Procedure A)
  - 7.1.3 Thermal resistance – ASTM C518
  - 7.1.4 Oxygen Index – ASTM D2863
  - 7.1.5 Flexural Strength – ASTM C203 (Method 1, Procedure B)
- 7.2 Annually, RDS conducts the following tests:
- 7.2.1 Water vapor transmission – ASTM E96 (dry cup method)
  - 7.2.2 Dimensional stability – ASTM D2126
  - 7.2.3 Water absorption – ASTM C272
- 7.3 The quality control manual for the Opa Locka, FL facility is evaluated along with in-plant inspections by RDS to determine the effectiveness of the quality control system and implementation of the policies and procedures defined in the quality control manual.
- 7.4 Annual on-site inspection of procedures and product testing are performed by RDS. During inspection, samples of product are selected for testing referenced in 7.1 and 7.2.
- 7.5 Semi-annual requests for test samples are made by RDS to the Opa Locka, FL facility. Samples are requested for testing referenced in 7.1.
- 7.6 The Quality Control system shall be maintained Kingspan Insulation, LLC.

**8.0 INSTALLATION:**

- 8.1 Product is to be installed in accordance with the manufacturer’s published installation instructions by qualified installing personnel.



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# PRODUCT LISTING

## RDS-F1001

Issued: January 1, 2023  
 Renewal Due: January 1, 2024

### 9.0 EVALUATED PROPERTIES AND RESULTS:

PROPERTY	RESULT
Density, Min (lb/ft <sup>3</sup> )	0.90
Compressive Strength, Min (lb/in. <sup>2</sup> )	10.0
Oxygen Index, Min (% O <sub>2</sub> )	24.0
Thermal Resistance, Min at 75 °F (°F·ft <sup>2</sup> ·h/Btu·in.)	3.6
Water Vapor Transmission, Max (perm)	5.0
Dimensional stability, Max (%) <ul style="list-style-type: none"> <li>• At 70 °C and 97 % Relative Humidity</li> <li>• At -40 °C</li> </ul>	2 2
Water Absorption, Max (Volume %)	4.0
Flexural Strength, Min (lb/in. <sup>2</sup> )	25

*This listing report indicates that R&D Services, Inc. has evaluated this product as described herein, and it is eligible for listing. No other product is covered by this listing. R&D Services, Inc. makes no warranty, expressed or implied, or guarantee regarding the product covered by this listing.*