



THE RE-SYSTEMS GROUP

HDPE Turbo Sheet 41 mil Reinforced Composite Protection Sheet GEL-TECH SYSTEM RE-Systems Group, USA

Division: 07260, 03300

1.0 PRODUCT NAME

HDPE Turbo Sheet 41 mil Class A Protection Sheet/Vapor Retarder ASTM E 1745 Class A

2.0 MANUFACTURER REPRESENTATION

RE-Systems Group, USA 430 Oak Grove St. Suite 410 Minneapolis, MN 55403 USA Technical Assistance Phone: (800) 997-3797 Fax: (612) 872-1900

3.0 PRODUCT DESCRIPTION

HDPE 41 mil Reinforced Composite Turbo Sheet is a high performance slab vapor retarder and waterproofing protection sheet developed for GEL-TECH composite waterproofing systems GT-350 and GT-500. It is also used to control radon, methane, sulphates and other soil contaminants.

3.1 COMPOSITION

HDPE 41 mil reinforced composite Turbo Sheet is made with only high-grade virgin polyolefin resins. The manufacturing process for HDPE 41 mil reinforced composite Turbo Sheet is a first melt, three layer, co-extruded system combining 2 layers of U.V stabilized polyethylene, a high strength cord grid with a non-woven, post consumer recycled geo-textile backing laminated into the HDPE. HDPE 41 mil reinforced composite Turbo Sheet is manufactured in 12 ft x 100 ft rolls (1200 ft²). HDPE 41 mil reinforced composite Turbo sheet weighs approximately 135 lbs per roll.

4.0 TECHNICAL DATA

Applicable Standards

American Society for Testing & Materials (ASTM)

- ASTM E 1745 Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.
• ASTM E 154 Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as a Ground cover.
• ASTM D 1709 Standard Test Methods for Impact Resistance of Plastic Films by the Free Falling Dart Method.
• ASTM E 96 Standard Test Method for Water Vapor Transmission of Materials.
• ASTM D 882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
• ASTM E 1643 Standard Practice for installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.

Table 1: Physical Properties of HDPE Turbo sheet 41 mil reinforced Protection Sheet/Vapor Retarder. Table with 3 columns: Property, Standard, Value. Rows include Classification, Water Vapor Permeance, Tensile Strength, Puncture Resistance, and Dart Impact Strength.

5.0 INSTALLATION

HDPE 41 mil reinforced composite Turbo sheet is applied over Turbo-Seal in horizontal and vertical applications as a protection barrier. Press **HDPE 41 mil reinforced composite Turbo Sheet** into applied Turbo-Seal, overlapping seams a minimum of 6 inches and seal with Turbo Seaming Tape or heat weld. All penetrations must be sealed with a dual layer of Turbo-Seal and 41 mil Turbo sheet and sealed with Turbo Seaming Tape or heat weld.

HDPE 41 mil reinforced composite Turbo sheet can also be used as a Class A vapor barrier. Install over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. Overlap all seams a minimum of 6 inches and seal with Turbo Seaming Tape or heat weld. All penetrations must be sealed with **HDPE 41 mil reinforced composite Turbo sheet** and Turbo Seaming Tape per manufacturer's recommendations.

6.0 AVAILABILITY & COST

HDPE 41 mil reinforced composite Turbo sheet is available nationally through our network of building supply companies. Contact our corporate office for a distributor in your area.

7.0 WARRANTY

We warrant and guarantee our specifications as published. RE-Systems Group, USA published test results are based upon accepted industry practices as well as the test methods called for and listed on our test documents. We believe, to the best of our knowledge, that our published results are accurate, reliable and represent our vapor retarder membrane. RE-Systems Group, USA cannot control site conditions and improper installation practices. Therefore, no warranty, expressed or implied, is given, including those of merchantability, fitness for a particular purpose or any other matter with respect to the product unless specified as part of RE-Systems Group, USA Turbo-Seal waterproofing system.

8.0 MAINTENANCE

No maintenance is required.

9.0 TECHNICAL SERVICES

Technical services for all of our products may be obtained by contacting our corporate office.

10.0 FILING SYSTEMS

Product brochures are available from RE-Systems Group, USA distributors, sales representatives, the manufacturer and on our website.



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