

GTM-20 Protection Sheet

HDPE 20 mil with Geo-Textile Backing
Protection Sheet/Vapor Retarder

ASTM-E 1745 Class A

Methane Permeance

ASTM D1434

Description

GTM-20 is a high performance waterproofing protection sheet and slab vapor retarder developed for GEL-TECH SYSTEMS. It is also used to control radon, methane, sulphates and other soil contaminants. GTM-20 Protection Sheet is a high density, cross-laminated polyethylene with a geotextile fabric reinforcement layer that resists punctures and tears. The sheet is UV stabilized to withstand prolonged exposure to sunlight and also meets ASTM standard D-3083 Soil Burial test performance requirements. GTM-20 mil reinforced protection sheet is not prone to environmental stress cracking (ESC) so it can endure repeated thermal expansion and contraction cycles.

GTM-20 Protection Sheet is used in GEL-TECH SYSTEMS GTS-350 positive side and GTS-500 blind side waterproofing systems for above and below grade construction. GTM-20 is ideal for use in harsh environments along with GTS Poly-Rubber Gel to create an effective, permanent waterproofing system.

Uses

GTM-20 Protection Sheet is applied in both above grade and below grade applications. GTM-20 is suitable for new construction and repair. Applications include the

following types of waterproofing: horizontal positive side waterproofing (GTS-350); vertical wall positive side waterproofing (GTS-350); and blind side waterproofing (GTS-500). Areas of application include: plaza decks; elevator pits; poured wall foundations; block wall foundations; brick wall foundations; granite/limestone foundations; split slab construction; diaphragm wall (blind side); and green roofs.

Application

GTM-20 Protection Sheet is applied over GTS Poly-Rubber Gel in horizontal and vertical applications by embedding the fleece side into the applied GTS, overlapping seams a minimum of 6 inches, and seal with GTA-Seam Tape or heat weld. All penetrations must be sealed with a dual layer of GTS and GTM-20 and sealed with GTA-Seam Tape or heat weld.

PHYSICAL PROPERTIES – GTM-20 Protection Sheet

Weight	• 117 lbs/1000ft ² (ASTM D-5261)
Thickness	• 48 mil (ASTM D-5199)
Load @ Yield	• 50 lbf (ASTM D-882)
Load @ Break	• 65 lbf/1350 psi (ASTM D-882)
Elongation @ Break	• 575% (ASTM D-882)
Tongue Tear	• 50 lbf (ASTM D-5735)
Trapezoidal Tear	• 94 lbf (ASTM D-4533)
PPT Resistance	• 75 lbf (ASTM D-2582)
Dart Impact Strength	• 5 lbs (ASTM D-1709)
Puncture Strength	• 97 lbs (ASTM D-4833)
Permeance	• 0.0143 grain/hr • ft ² • in.Hg (ASTM E-96)

Application Continued

GTM-20 Protection Sheet can also be used as a Class A vapor barrier. Install fleece side up 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 GTA-Seam Tape or heat weld. All penetrations must be sealed with GTM-20 Protection Sheet and GTA-Seam Tape per manufacturer's recommendations.

Health and Safety

Follow all recommended safety guidelines when working at jobsite. Wear suitable gloves, masks, protective clothing and safety glasses. See MSDS or SDS.

Packaging

GTM-20 Protection Sheet is manufactured in 12ft. x 100ft. rolls (1200 ft²), and weighs approximately 150 lbs. per roll.

Storage & Shelf Life

Store in clean, dry conditions at 50° to 80° F. Shelf life is indefinite, when stored according to recommended storage guidelines.

Transportation

GTM-20 Protection Sheet is classified as a DOT non-hazardous material.

Limitations

All GEL-TECH SYSTEM components must be installed in immediate succession at time of application. After application, the installed GEL-TECH SYSTEMS must be protected from environmental exposure and preceding trades.

For Technical Assistance Contact:



RE-Systems Group Americas, Inc.
1136 114th Ln NW Suite 400
Minneapolis, MN 55447
P: 612.872.1900
F: 612.872.1902
www.re-systemsgroup.com

GTS and GEL-TECH SYSTEMS are registered trademark and patent covered products. All information and statements including test results and recommendations are believed to be truthful and accurate, however The RE-Systems Group Americas, Inc. does not warrant or guarantee anything contained in this document. Product users should verify suitability independently. RE-Systems Group Americas, Inc. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS.