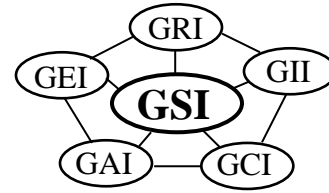


Geosynthetic Institute

475 Kedron Avenue
Folsom, PA 19033-1208 USA
TEL (610) 522-8440
FAX (610) 522-8441



June 11, 2020

Ms. Patricia Ferreira
Engepol Geossintéticos Ltda.
Juscelino Kubitschek De
Oliveira No. 250
São José, Canoas
Rio Grande do Sul
Brazil 92420-540

Re: GAI-LAP Accreditation

Dear Ms. Patricia Ferreira:

The Geosynthetic Institute (GSI) is pleased to acknowledge Engepol Geossintéticos Ltda. on its repertoire of Geosynthetic Accreditation Institute's-Laboratory Accreditation Program (GAI-LAP) accredited tests. This letter should serve as notification that Engepol Geossintéticos Ltda. located near Porto Alegre, Brazil is currently accredited for the following sixteen (16) test methods until June 30, 2021.

1. ASTM D374 Test Methods for Thickness of Solid Electrical Insulation
2. ASTM D792 Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement
3. ASTM D1004 Test Method for Initial Tear Resistance of Plastic Film and Sheeting
4. ASTM D1238 Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer
5. ASTM D3895 Test Method for Oxidative-Induction Time of Polyolefin by Differential Scanning Calorimetry
6. ASTM D4218 Test Method for Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique
7. ASTM D4833 Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
8. ASTM D5199 Test Method for Measuring Nominal Thickness of Geotextiles and Geomembranes
9. ASTM D5397 Test Method for Evaluating Stress Crack Resistance of Polyolefin
10. ASTM D5596 Test Methods for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics
11. ASTM D5721 Standard Practice for Air-Oven Aging of Polyolefin Geomembranes
12. ASTM D5994 Test Method for Measuring the Core Thickness of Textured Geomembranes

13. ASTM D6392 Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods
14. ASTM D6693 Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes
15. ASTM D7466 Test Method for Measuring the Asperity Height of Textured Geomembranes
16. ISO 01133 Determination of the melt mass-flow rate (MFR) of thermoplastics

A certificate to this affect has been enclosed, signed and sealed. Any questions regarding your accreditation should be directed to George Koerner at (610) 522-8440. Once again congratulation and thank you for participating in the GAI-LAP.

Best regards,

A handwritten signature in black ink, appearing to read "George R. Koerner". The signature is stylized with a large, looped "G" and a long horizontal stroke at the end.

George R. Koerner, Ph.D., P.E. & CQA
Director