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MI.GE-1007.2 Grab Tensile Strength Test

The most common tensile test used in the geotextile industry is the grab test as specified in ASTM D4632. The grab test method is a modification of tensile test, for use with geotextile fabrics, that measures ultimate strength and elongation. A typical tensile test clamps end of the specimen.

This test measures the ability of the geotextile to distribute concentrated loads. Specially devised clamps (25.4 mm wide) with a gauge length of 100 mm are placed across 200 mm square samples or 200 mm x100 mm samples. The sample is then subjected to tension at a specified rate until failure occurs. It is widely used by manufacturers as a quality control tool and as such is the most commonly reported tensile strength value. It can also be used for relative comparisons between geotextiles of the same type.

Technical Specifications:

Jaw Size (Holding point)	25.4mm X 50.8 mm
Total Length of Jaws	200×50.8 mm
Sample Size	101.6 mm x 203.2 mm
Speed of Test	300 ± 10 mm/min
Related Standards	ASTM D 4632, ISO 13934,

