

1. Scope

This specification applies to a monofilament woven geotextile filter fabric. The fabric will be used primarily for construction of silt fences for soil retention in erosion and sediment control applications on construction sites. It will also be used for protecting drain grates against sediment ingress.

2. Material ID number

This specification applies to District Material ID Number **1000831**.

3. Reference Standards

Except as modified herein, the filter fabric shall meet the applicable requirements of the latest revisions of the ASTM standards referenced in Figure 1.

4. Material and Color

The filter fabric shall be of monofilament polypropylene yarn construction, black in color, inert to biological degradation, and resistant to UV and naturally encountered chemicals, alkalis and acids. The filter fabric shall be highly durable and shall meet the minimum average property values identified in Figure 1.

5. Dimensions

The filter fabric shall be provided in neatly wound 3 ft x 300 ft rolls.

6. Labeling

The manufacturer's name and part number shall be marked on each package (each roll) of filter fabric.

7. Packaging

Rolls of filter fabric (3 ft x 300 ft) shall be shipped on nonreturnable wooden pallets suitable for handling with a forklift.

GEOTEXTILE STANDARDS	
Polymeric Mesh AOS (ASTM D4751)	0.60 mm maximum for slit film woven (#30 sieve). 0.30 mm maximum for all other geotextile types (#50 sieve). 0.15 mm minimum for all fabric types (#100 sieve).
Water Permittivity (ASTM D4491)	0.02 sec-1 minimum
Grab Tensile Strength (ASTM D4632)	180 lbs. Minimum for extra strength fabric. 100 lbs minimum for standard strength fabric.
Grab Tensile Strength (ASTM D4632)	30% maximum
Ultraviolet Resistance (ASTM D4355)	70% minimum

Figure 1: Per WA Department of Ecology Volume II - Construction SWPP, BMP C233