COMTRAC® 175.20

COMTRAC is a woven geotextile comprised of high tenacity polyester and polypropylene yarns woven into a stable network such that the yarns retain their relative positions. The geotextile is inert to biological degradation and naturally encountered chemicals, alkalis, and acids. COMTRAC geotextiles have been developed to reinforce steepened slopes, embankments over soft soils, and landfill liners. COMTRAC woven textiles are produced at Huesker’s manufacturing facility that has achieved ISO 9001 certification for its systematic approach to quality in development, manufacture, inspection, sales and application support of geosynthetics.

**Physical Properties of COMTRAC 175.20 Geotextile**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>English Units[^1]</th>
<th>SI Units[^1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass/Unit Area</td>
<td>ASTM D-5261</td>
<td>8.85 oz/yd²</td>
<td>300 g/m²</td>
</tr>
<tr>
<td>Wide Width Tensile Strength</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine Direction (MD)</td>
<td>ASTM D-4595</td>
<td>1000 lb/in (11,991 lb/ft)</td>
<td>175.0 kN/m</td>
</tr>
<tr>
<td>Cross Machine Direction (CMD)</td>
<td>ASTM D-4595</td>
<td>114 lb/in (1,370 lb/ft)</td>
<td>20.0 kN/m</td>
</tr>
<tr>
<td>Tensile Strength @ 5% (MD)</td>
<td>ASTM D-4595</td>
<td>400 lb/in (4,796 lb/ft)</td>
<td>70.0 kN/m</td>
</tr>
<tr>
<td>Elongation At Break (MD)</td>
<td>ASTM D-4595</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Apparent Opening Size (AOS)</td>
<td>ASTM D-4751</td>
<td>40 US sieve</td>
<td>0.425 mm</td>
</tr>
<tr>
<td>Long Term Design Strength* (MD)</td>
<td>GRI - GT7</td>
<td>476 lb/in (5,720 lb/ft)</td>
<td>83 kN/m</td>
</tr>
<tr>
<td>Sand</td>
<td>GRI - GT7</td>
<td>429 lb/in (5,148 lb/ft)</td>
<td>75 kN/m</td>
</tr>
<tr>
<td>Sandy Gravel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[^1] MARV - Minimum average roll values are based on a 95% confidence level.

\[
\text{LTDS} = \frac{T_{\text{ULTIMATE}}}{FS_{\text{ID}} \times FS_{\text{CR}} \times FS_{\text{CD}} \times FS_{\text{BD}} \times FS_{\text{JNT}}}
\]

\[
= \frac{1000}{1.17 \times 1.63 \times 1.1 \times 1.0 \times 1.0}
\]

\[
\text{LTDS = 476 lb/in - Sand}
\]

\[
\text{T}_{\text{ALLOWABLE}} = \text{LTDS} + FS_{\text{UNC}}
\]

\[
\text{FS}_{\text{ID}} = \text{factor of safety for installation damage}
\]

\[
\text{FS}_{\text{CR}} = \text{factor of safety for creep deformation (114 Years)}
\]

\[
\text{FS}_{\text{CD}} = \text{factor of safety for chemical degradation (4 < pH < 9)}
\]

\[
\text{FS}_{\text{BD}} = \text{factor of safety for biological degradation}
\]

\[
\text{FS}_{\text{JNT}} = \text{factor of safety for joints (seams and connections)}
\]

\[
\text{FS}_{\text{UNC}} = \text{factor of safety for uncertainties}
\]

Standard Roll Size: 12.14 ft (3.7 m) wide x 262.60 ft (80.0 m) long = 354 yd² (296 m²)

Weight (includes core) = 231 lbs. (105 kg)

Each roll of Comtrac delivered to the project site is labeled by HUESKER® with a roll label that indicates manufacturer's name, product identification, lot number, roll number and roll dimensions. All rolls of Comtrac are encased in a sturdy polyethylene wrap to shield the fabric from rain, dirt, dust and ultraviolet light. Contact HUESKER for information on our product warranty.