Ram 30 Root Barrier is a high density polyethylene (HDPE) geomembrane produced from specially formulated, virgin polyethylene resin, designed specifically for flexible geomembrane applications. It contains approximately 97.6% polyethylene, 2.4% carbon black and trace amounts of antioxidants and heat stabilizers; no other additives, fillers or extenders are used.

Ram 30 has outstanding mechanical properties, environmental stress crack resistance, dimensional stability, good chemical resistance and thermal aging characteristics. It has excellent resistance to UV radiation and is suitable for exposed conditions.

**USES**
- Redirects root growth away from waterproofing
- Prevents root damage to the waterproofing membrane
- Prevent roots from invading Greenroof drainage systems
- Recommended for high-profile, intensive greenroof systems
- More resistance to construction pedestrian traffic damage

**FEATURES**
- Robust, extra thick protection
- Larger roll sizes
- Lightweight
- High tensile strength
- High puncture and tear resistance
- Wide range of chemical resistance

**BENEFITS**
- Easy installation reduces application time
- Superior durability
- Cost effective
- Proven performance

**APPLICATION GUIDELINES**
- All laps should be a minimum of 12 inches
- Turn up min. 4 inches above finish elevation line at perimeters and projections and temporarily tape to the walls.
- Tape all seams with Barrett RB25 Root Barrier Seam Tape
- Repair punctures and any other damages before installing drainage mat.

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Typical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>ASTM D-5119</td>
<td>28.5 mils</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td>13.98lbs/100sqft.approx</td>
</tr>
<tr>
<td>Tensile Strength at break</td>
<td>ASTM D-6693</td>
<td>144 ppi</td>
</tr>
<tr>
<td>Elongation@Break*</td>
<td>ASTM D-6693</td>
<td>900%</td>
</tr>
<tr>
<td>Tear Resistance</td>
<td>ASTM D-1004</td>
<td>18 lbs</td>
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<tr>
<td>Puncture Resistance</td>
<td>ASTM D-4833</td>
<td>60 lbs</td>
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<tr>
<td>Oxidation Induction Time</td>
<td>ASTM D-3895</td>
<td>100 min</td>
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<tr>
<td>Carbon Black</td>
<td>ASTM D-4218</td>
<td>2.4%</td>
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<tr>
<td>2% Secant Modulus</td>
<td>ASTM D-5323</td>
<td>30,000 psi (max)</td>
</tr>
<tr>
<td>Hydraulic Conductivity</td>
<td></td>
<td>2.5 x 10^10 cm/sec</td>
</tr>
<tr>
<td>Static Use Temperature</td>
<td>Max</td>
<td>180°F</td>
</tr>
<tr>
<td></td>
<td>Min</td>
<td>-70°F</td>
</tr>
</tbody>
</table>

*Elongation can vary

**APPLICATION PRECAUTIONS**
- Store in dry protected location
- Do not expose to open flames
- **READ SAFETY DATA SHEET BEFORE USING**
- **FOR PROFESSIONAL CONTRACTORS USE ONLY.**

**PRODUCT SAFETY INFORMATION**
Ram RB 30 Root Barrier offers no unusual health or safety risks for a product of this nature. As with any roofing process, proper ventilation, clothing and eye protection is important. For specific information, contact the Barrett Company for a current Safety Data Sheet on this product.

The user should not assume that all safety measures are indicated or that other measures may not be required.

**Note**
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Issued 3-2019