Ram RB 40 Root Barrier is a heavy duty, linear polyethylene sheet which has been successfully established as an effective root barrier under severe conditions.

Ram RB 40 Root Barrier contains virgin resins which does not become brittle or age prematurely. A typical carbon black content of 2.4% provides excellent protection from UV exposure and harsh weather conditions.

Production is carefully controlled to assure a uniform thickness and the material is electronically tested for ASTM conformance. Seam taping of all joints reduces workmanship demands and installation time.

USES
- Recommended for most intensive vegetated roofs
- Directs root growth away from waterproofing
- Prevents root damage to the membrane
- Prevent roots from invading Greenroof components below
- Resistant to most construction pedestrian traffic
- Recommended for semi-aggressive root systems. It is not appropriate for bamboo and similarly aggressive roots.

FEATURES
- Robust, extra thick protection
- Larger roll sizes available
- Lightweight with high tensile strength
- High puncture and tear resistance
- Excellent chemical resistance

BENEFITS
- Easy installation reduces application time
- Superior durability
- Cost effective
- Proven performance
- Offers soft flexibility and conformity

PACKAGING
Standard Size - 12.667 ft. wide x 100 ft. long
Various widths and lengths available by special order
Standard Roll Weight 238lbs approx.
Weight - 0.188 lbs/sq. ft. approx.
Rolls normally ship loose

Available in large fabricated panels up to 30,000 SF. All panels are accordion folded every 5 feet and rolled tightly.

### 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>38 mils</td>
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<tr>
<td>Weight</td>
<td></td>
<td>18.66lbs/100sqft.approx</td>
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<tr>
<td>Tensile Strength at break</td>
<td>ASTM D-6693</td>
<td>192 ppi</td>
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<tr>
<td>Elongation@Break*</td>
<td>ASTM D-6693</td>
<td>900%</td>
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<tr>
<td>Tear Resistance</td>
<td>ASTM D-1004</td>
<td>24 lbs</td>
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<tr>
<td>Puncture Resistance</td>
<td>ASTM D-4833</td>
<td>80 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>
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<tr>
<td>Hydraulic Conductivity</td>
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<td>1.9 x 10^-10 cm/sec</td>
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<tr>
<td>Static Use Temperature</td>
<td>Max</td>
<td>180°F</td>
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<tr>
<td></td>
<td>Min</td>
<td>-70°F</td>
</tr>
</tbody>
</table>

* Elongation can vary

APPLICATION GUIDELINES
- All laps should be minimum of 12 inches
- Turn up min 4 inches above finished system elevation at perimeters and projections and temporarily tape to the walls.
- Tape all seams with RB 25 Root Barrier Seam tape
- Repair all punctures before installing overburden

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 40 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
All statements, information and data given herein are believed to be accurate and reliable, but are presented without guaranty, warranty or responsibility of any kind, expressed or implied, except as may be indicated herein. Statements or suggestions concerning possible uses of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.

Barrett Company, Inc.  Millington, NJ  800-647-0100  e-mail: info@barrettroofs.com  Website: barrettroofs.com