DATA SHEET

Engineered Products

Benefits:

- Can be molded into different shapes and sizes with ordinary working tools
- Excellent strength to density relationship
- Impressionable foam for medical and packaging applications
- Self-extinguishing and exhibits fire retardant properties
- Excellent as thermal insulation
- Capable of meeting international building regulation requirements
- Non-flammable, but will support combustion by direct contact with open flame or exposure to temperature in the range of 315°C (600°F)
- Can be used as a filter in carbon molecular sieve manufacturing
- Can be carbonized

Applications:

- Floral foam
- Dry foam
- Universal and Hazmat absorbent
- Nitrogen filters - separating nitrogen and oxygen
- Sound absorber - reducing reverberation and ambient noise
- Foam insulation
- Molding and milling foam
- Props, 3D signs, sculptures and other shapes by CNC or hand
- Hydroponic growing media for propagation and production
• Packaging foam
• Cold chain packaging to keep sensitive items cold in transit without external refrigeration
• Landscape soil to reduce watering

Smithers-Oasis phenolic foam is an expanded foam with controllable cell size. It’s a lightweight foam available closed or open cell, different densities, size and shapes for different applications.

**Foam Properties for Engineered Products:**

<table>
<thead>
<tr>
<th>Engineered Products</th>
<th>Applications</th>
<th>Compression (PSI)</th>
<th>Density (pcf)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenolic Scultpure Foam</td>
<td>Cutting and Carving Molding and Milling</td>
<td>Between 10 – 17</td>
<td>Between 1.0 – 1.7</td>
<td>Salmon and Green</td>
</tr>
<tr>
<td>Sahara II Scultpure Foam</td>
<td>Cutting and Carving Arts and Crafts</td>
<td>Between 20 – 25</td>
<td>Between 1.0 – 1.7</td>
<td>Brown and Green</td>
</tr>
<tr>
<td>BIO Foam</td>
<td>Impressions Packaging Protector</td>
<td>Between 2.3 – 2.5</td>
<td>Between 0.9 – 1.0</td>
<td>Salmon and Blue</td>
</tr>
<tr>
<td>High Density Foam</td>
<td>Mold and Milling</td>
<td>Between 30 – 50</td>
<td>Between 3.0 – 6.0</td>
<td>Salmon</td>
</tr>
<tr>
<td>Absorbents Foam</td>
<td>Universal Absorbent</td>
<td>Between 10 – 17</td>
<td>Between 1.0 – 1.9</td>
<td>Salmon and Green</td>
</tr>
<tr>
<td>Floral Foam</td>
<td>Flower Arrangements</td>
<td>Between 10 – 17</td>
<td>Between 1.2 – 1.9</td>
<td>Green</td>
</tr>
<tr>
<td>Grower Foam</td>
<td>Seeds, Cuttings and Clone Propagation</td>
<td>Between 3 – 5</td>
<td>Between 0.9 – 1.3</td>
<td>Brown and Grey</td>
</tr>
</tbody>
</table>

**Thermal Conductivity:**

- **Insulation**
  - W/(m K) Btu/(ft h°F)
  - More than 0.02 – up to 0.025
  - More than 0.14 – up to 0.174

- **Energy**
  - Kj/Kg BTU/Lbs
  - 28,144.6
  - More than 10,000

- **Ash content when burned**
  - %
  - 5.04