POLYESTER

Polyester is a highly versatile fiber and is used in many applications:

- **Nonwovens**: Barnet supplies fibers for needlepunch, thermal bond, wetlaid, and spunlace fabrics.
- **Furniture**: Polyester filling fibers provide essential performance attributes of durability, comfort, and presentation.
- **Bedding**: Next generation, thermal-bonded high loft nonwovens offer new levels of comfort in mattress construction. Barnet offers quality fibers which combine maximum comfort with resilience. For quilts, pillows, comforters, and sleeping bags, we supply a wide range of fibers that provide maximum comfort and warmth.
- **Spinning**: Barnet supplies a wide range of virgin fine denier polyesters suitable for all types of spinning applications.

NYLON

Barnet offers a range of nylon staple fibers in both 6 and 66 for a variety of applications:

- **Woolen Spinning**: These fibers are manufactured at our plants in Europe and the USA. We provide a wide assortment of fine to coarse deniers to suit all customer requirements.
- **Carpet Spinning**: Barnet offers a range of different nylon 6 and nylon 66 grades for carpet spinning. The fibers are available in different lusters, cross sections, and for different dyeing processes.
- **Nonwoven**: Barnet can offer a range of fibers suitable for high tech nonwoven applications.

<table>
<thead>
<tr>
<th>Product</th>
<th>dtex</th>
<th>Luster</th>
<th>Spin Finish Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virgin solid</td>
<td>0.7 – 4.4</td>
<td>Semi dull &amp; bright</td>
<td>Spinning, nonwoven &amp; spunlace</td>
</tr>
<tr>
<td>Virgin solid</td>
<td>0.7 – 4.4</td>
<td>Spun dyed black</td>
<td>Spinning, nonwoven &amp; spunlace</td>
</tr>
<tr>
<td>Virgin low melt</td>
<td>4.4 – 17</td>
<td>Semi dull</td>
<td>Normal dry</td>
</tr>
<tr>
<td>Virgin solid</td>
<td>6.7 – 28</td>
<td>Semi dull &amp; bright</td>
<td>High speed card &amp; needlepunch</td>
</tr>
<tr>
<td>Recycled solid</td>
<td>3.3 – 28</td>
<td>Semi dull</td>
<td>High speed card &amp; needlepunch</td>
</tr>
<tr>
<td>Recycled solid</td>
<td>3.3 – 28</td>
<td>Spun dyed black</td>
<td>High speed card &amp; needlepunch</td>
</tr>
<tr>
<td>Virgin hollow</td>
<td>6.7 – 17</td>
<td>Semi dull</td>
<td>Dry, slick &amp; siliconized</td>
</tr>
<tr>
<td>Recycled hollow</td>
<td>4.4 – 17</td>
<td>Semi dull</td>
<td>Dry, slick &amp; siliconized</td>
</tr>
<tr>
<td>Virgin conjugate</td>
<td>7.7 – 17</td>
<td>Semi dull</td>
<td>Dry, slick &amp; siliconized</td>
</tr>
<tr>
<td>Recycled conjugate</td>
<td>7.7 – 17</td>
<td>Semi dull</td>
<td>Dry, slick &amp; siliconized</td>
</tr>
<tr>
<td>Recycled solid</td>
<td>3.3 – 40</td>
<td>Various colors</td>
<td>High speed card &amp; needlepunch</td>
</tr>
</tbody>
</table>

Cut lengths: 32, 38, 50, 60, 80, 90, 100, 120 & 150 mm
SHORT CUT

Barnet is a specialist in the production of short cut fibers to serve many new and technical applications. The expertise of our product development team enables us to respond to your requirements and offer you the right fiber to suit your application, especially with regard to dispersion and performance.

PAPER INDUSTRY – Short cut fibers are used in many paper applications such as security paper, specialty paper, filter paper and wallpaper. Short cut fiber improves properties such as tear-, tensile- and burst-strength and bulk.

CONSTRUCTION – Short cut fibers are added to concrete to stop cracking caused by contraction.

Our short cut fiber is typically offered in white. However, our flexible approach and ability to source globally means that we can supply many custom-made grades upon request. Colors can be made available, as well as specialty fibers such as hollow, flame-retardant, antibacterial and antistatic grades.

In addition to that we can supply short cut fibers with specialty finishes, modified cross-sections, multiple lustres and low shrinkage fiber.

POLYESTER

Polyester short cut fiber is used in a broad range of applications. Two principal applications are WALLCOVERINGS and FILTRATION, for which we offer a vast range of grades.

Polyester short cut is available in a broad selection of deniers, starting as low as dtex 0.3 and up to dtex 200.

<table>
<thead>
<tr>
<th>fiber type</th>
<th>dtex</th>
<th>remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>1.5</td>
<td>flame-retardant</td>
</tr>
<tr>
<td>Polyester</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>1.7</td>
<td>crimped</td>
</tr>
<tr>
<td>Polyester</td>
<td>3.3</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>3.3</td>
<td>flame-retardant</td>
</tr>
<tr>
<td>Polyester</td>
<td>3.3</td>
<td>black</td>
</tr>
<tr>
<td>Polyester</td>
<td>5.5</td>
<td>colored</td>
</tr>
<tr>
<td>Polyester</td>
<td>5.5</td>
<td>high tenacity</td>
</tr>
<tr>
<td>Polyester</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>6.0</td>
<td>flame-retardant</td>
</tr>
<tr>
<td>Polyester</td>
<td>6.7</td>
<td>crimped</td>
</tr>
<tr>
<td>Polyester</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>17.0</td>
<td>low shrinkage</td>
</tr>
<tr>
<td>Polyester PE</td>
<td>3.3</td>
<td>bi-component PE/PET</td>
</tr>
</tbody>
</table>

Cut lengths: 3, 4, 5, 6, 8, 10, 12, 15, 18, 20, 24, 30 & 38 mm

Ultra short cut (Flock): 0.5 – 3 mm

WETLAID NONWOVENS – Barnet’s range of specialty short cut fibers has been specifically designed for this high performance market. Wetlaid nonwovens are used in many high performance areas such as battery separators, filtration, high temperature insulation fabrics.

ELASTOMERS – Precision cut fibers and flocks are added to reinforce natural and synthetic rubber compounds. These fibers are widely used to add performance to V belts, timing belts and rubber hoses.

COMPOSITES – The use of short cut fibers in polymers is growing as they help to improve the strength, stiffness and durability of the base resin or polymer.

NYLON

Nylon short cut fibers are used in a large field of applications where lifespan and durability are required. Two principal applications are SECURITY PAPERS (including money) and BATTERY SEPARATORS, for which we offer a vast range of grades.

Nylon short cut is available in a broad selection of deniers, starting as low as dtex 0.9 and up to dtex 6.7.

<table>
<thead>
<tr>
<th>fiber type</th>
<th>dtex</th>
<th>remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nylon 6</td>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>Nylon 6</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Nylon 6</td>
<td>3.3</td>
<td></td>
</tr>
<tr>
<td>Nylon 6</td>
<td>6.7</td>
<td>high tenacity</td>
</tr>
<tr>
<td>Nylon 66</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Nylon 66</td>
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<td>antibacterial</td>
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<tr>
<td>Nylon 66</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Nylon 66</td>
<td>2.0</td>
<td>hollow</td>
</tr>
<tr>
<td>Nylon 66</td>
<td>3.3</td>
<td></td>
</tr>
<tr>
<td>Nylon 66</td>
<td>6.7</td>
<td>high tenacity</td>
</tr>
</tbody>
</table>

Cut lengths: 3, 4, 5, 6, 8, 10, 12, 15, 18, 20, 24, 30 & 38 mm

Ultra short cut (Flock): 0.5 – 3 mm

SPECIALTY SHORT CUT / MILLED FIBERS

Barnet’s global presence and partners gives us access to a wide range of raw materials, finishes and coatings. Over the years, we have proven to be a reliable supplier for technical fibers such as aramid, carbon and PLA. The variety in our cutting and milling equipment allows us to produce any length required.

- Milled fibers: 250 μm – 750 μm
- Guillotine cut: 0.5 mm – 9 mm
- Precision cut: 3 mm – 30 mm

The expertise of our product development team enables us to respond to your requirements and offer you the technical fiber to suit your application. Challenge us!
POLYMERS

For over 25 years, Barnet’s polymers business has acted as a global supplier of thermoplastic products to the compounding market, delivering experience, competence, quality and reliability. With production sites in Europe and the USA, we specialize in the recycling of nylon 6, nylon 66 and PET-residues in any form and offer compounding as an additional service to our customers. Further to our specialization in the aforementioned polymer grades, we also have experience with other resins, such as PP, PE, ABS, PC. Additional services include contract manufacturing such as pelletization, agglomeration, grinding, drying, etc.

YARNS

Barnet is a global supplier of both high tenacity yarns and textile filaments for applications including NARROW and BROAD FABRIC, CIRCULAR-, REGULAR- AND WARP-KNITTING, CORDAGE, NETTING, SLINGS, HOSES, GEOTEXTILES, amongst many others.

We supply various grades and counts of polyester, nylon 6 and nylon 66, viscose or polypropylene in several make-ups and quality levels. High-tech yarns can also be supplied on request.

For special requirements such as customized twist constructions, colors or make-ups, please contact our team who will endeavor to handle your request to your highest satisfaction.

For antistatic protection we offer Nega-Stat® P190 and Nega-Stat® P210.
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