RTP Company provides materials with bio-based reinforcements for environmentally friendly and durable goods. These compounds use renewable cellulose fiber extracted from trees grown in sustainably managed forests, allowing you to meet sustainability objectives and growing consumer demands for "green" products without having to compromise performance or cost.

Other materials which use natural fibers along with bio-based resins are often unable to meet the performance or price points offered by petroleum-based plastic materials. These shortcomings have limited their widespread adoption.

Our cellulose fiber reinforcements increase mechanical properties such as strength, stiffness, and thermal performance in Polypropylene (PP), while retaining good processing characteristics at a competitive price point. Other benefits include faster cycle times and reduced energy usage during molding as these compounds are processed at lower temperatures than other reinforced Polypropylenes.

RTP Company’s Polypropylene compounds are available with cellulose fiber loadings up to 40 percent. To meet the requirements of more demanding applications, these compounds can be combined with glass fiber or copolymer Polypropylene to further increase performance. For a totally eco-friendly material with a compelling value statement, these compounds can also be combined with post-consumer Polypropylene.

Polypropylene compounds incorporating cellulose fiber are fully colorable, allowing them to be used for eye-catching designs and branding. They also bond with thermoplastic elastomers (TPEs) to incorporate soft, ergonomic features through overmolding.

**BENEFITS THAT GO BEYOND JUST BEING ECO-FRIENDLY**

When compared to other natural fibers and glass reinforcements, our cellulose fiber reinforced Polypropylene compounds provide the following benefits:

**Versus Other Natural Fibers:**
- Higher strength
- Consistent color and properties
- Superior processability
- Low odor
- Reliable supply

**Versus Glass Reinforcements:**
- Renewable content
- Lower energy consumption
- Reduced cycle times
- Lower specific gravity
- Less tool wear
**CELLULOSE FIBER REINFORCED POLYPROPYLENE COMPOUNDS**

**BENEFITS THAT GO BEYOND JUST BEING ECO-FRIENDLY CONT.**

As your global compounder of custom engineered thermoplastics, RTP Company has unrivaled options available to designers and engineers for employing cellulose fiber reinforcement.

**Base Resin:** Homopolymer, Copolymer, Range of Melt Flow  
**Reinforcement:** Cellulose Fiber, Short Glass, Long Glass, Mineral  
**Color:** Precolor, Masterbatch  
**Overmold:** TPEs with hardness from 30 - 80 Shore A

**WE PROVIDE SOLUTIONS FOR...**

- Material Handling  
- Furniture  
- Automotive  
- Appliances  
- Sporting Goods  
- Lawn and Garden

**PRODUCT OFFERING**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTP 199 x 143684 A</td>
<td>20% Cellulose Fiber - Homopolymer</td>
</tr>
<tr>
<td>RTP 199 x 143684 B</td>
<td>30% Cellulose Fiber - Homopolymer</td>
</tr>
<tr>
<td>RTP 199 x 143684 C</td>
<td>20% Cellulose Fiber - Homopolymer - High Flow</td>
</tr>
<tr>
<td>RTP 199 x 143684 D</td>
<td>30% Cellulose Fiber - Homopolymer - High Flow</td>
</tr>
<tr>
<td>RTP 199 x 142299 A</td>
<td>10% Glass Fiber - 20% Cellulose Fiber - Homopolymer</td>
</tr>
<tr>
<td>RTP 199 x 142299 B</td>
<td>10% Glass Fiber - 30% Cellulose Fiber - Homopolymer</td>
</tr>
<tr>
<td>RTP 199 x 143685 A</td>
<td>20% Cellulose Fiber - Copolymer - High Impact</td>
</tr>
<tr>
<td>RTP 199 x 143685 B</td>
<td>30% Cellulose Fiber - Copolymer - High Impact</td>
</tr>
<tr>
<td>RTP 199 x 143686 A BLACK</td>
<td>20% Cellulose Fiber - Recycled PP</td>
</tr>
<tr>
<td>RTP 199 x 143686 B BLACK</td>
<td>30% Cellulose Fiber - Recycled PP</td>
</tr>
</tbody>
</table>

*Custom formulations available to meet your application requirements.

View technical data sheets at: [web.rtpcompany.com/info/data/bioplastics](http://web.rtpcompany.com/info/data/bioplastics)