**FP-550 Opacity Pigment™** from **FP-Pigments** is a highly efficient white pigment for the polyolefin masterbatch industry. The unique engineered structure improves the efficiency of existing titanium dioxide pigments and enhances their performance allowing the formulator to optimise their product performance and reduce raw material costs.

**Easy to Use, Quick to Save**

**FP-550 Opacity Pigment™** has been developed by **FP-Pigments** for use in polyolefins as a partial replacement for TiO₂ pigment. The Opacity Pigment™ can easily be incorporated in polyolefin masterbatches using standard compounding operations and let down in end use processing equipment. The **FP-550 Opacity Pigment™** finds use in a wide range of end applications including extrusion, blown film and injection moulding.

**FP-550 - Blown Film Colour and Opacity**

In 50 micron thick blown PE films, up to 15% of the TiO₂ pigment can be replaced by **FP-550** while retaining opacity and film quality. Furthermore, FP-based blown films show high brightness and low yellowness compared to the TiO₂ based reference.

<table>
<thead>
<tr>
<th>Brightness L*</th>
<th>Tone a*</th>
<th>Tone b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>6% TiO₂ Reference</td>
<td>64.07</td>
<td>1.76</td>
</tr>
<tr>
<td>5.4% TiO₂/0.6% FP-550</td>
<td>64.99</td>
<td>1.72</td>
</tr>
<tr>
<td>5.4% TiO₂</td>
<td>61.26</td>
<td>1.85</td>
</tr>
</tbody>
</table>

PE Blown Film based on a 10% letdown of a 60% pigment-containing masterbatch.

**Customer Service Centres**

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Injection Moulded Plaques

Injection moulded plaques based on a 60% pigment-containing masterbatch in which 10 and 15% of the TiO₂ is replaced with FP-550 show high brightness and low yellowness. In addition, a lower tint reducing power allows for further cost savings by reducing the levels of colorants used in the masterbatch formulation.

<table>
<thead>
<tr>
<th></th>
<th>White L*</th>
<th>White b*</th>
<th>Blue L*</th>
<th>Grey b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2% TiO₂ Reference</td>
<td>96.4</td>
<td>3.4</td>
<td>46.3</td>
<td>-2.41</td>
</tr>
<tr>
<td>1.08% TiO₂/0.12% FP-550</td>
<td>96.7</td>
<td>2.9</td>
<td>45.6</td>
<td>-2.44</td>
</tr>
<tr>
<td>1.02% TiO₂/0.18% FP-550</td>
<td>96.9</td>
<td>2.5</td>
<td>45.3</td>
<td>-2.34</td>
</tr>
</tbody>
</table>

Injection moulded plaques based on a 2% letdown of a 60% pigment-containing masterbatch

Product Characteristics

- **FP-550** is available in 25 kg bags and in 500 kg big bags, as well as in bulk deliveries
- **FP-550** is fully REACH compliant

Recommendations

**FP-550** Opacity Pigment™ can be used as a partial replacement for TiO₂ pigment in polyolefin masterbatches. The recommended replacement level is between 10% and 15%. **FP-550** Opacity Pigment™ should be added with the TiO₂ during normal masterbatch preparation.

Disclaimer of Liability: The suggestions and data provided are based on information we believe to be reliable. They are offered in good faith, but without guarantee as conditions and method of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.