

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.

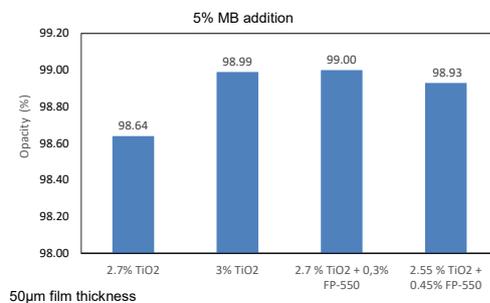
Easy to Use, Quick to Save

FP-550 Opacity Pigment™ has been developed by **FP-Pigments** for use in polyolefins as a partial replacement for TiO_2 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 TiO_2 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 TiO_2 based reference.

Blown film Opacity of TiO_2 /FP-550 in PE
(from 60% prepared masterbatch ISO EN 2471)



	Brightness L*	Tone a*	Tone b*
6% TiO_2 Reference	64.07	1.76	5.98
5.4% TiO_2 /0.6% FP-550	64.99	1.72	5.88
5.4% TiO_2	61.26	1.85	6.31

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



Customer Service Centres

EMEA Tel: + 49 346143 77 07 e-mail: orders@fp-pigments.com
 USA Tel: +1 706 234 1215 e-mail: orders@fp-pigments.us
 Asia Tel: +65 6543 6447 e-mail: adminasia@fp-pigments.com

Injection Moulded Plaques

Injection moulded plaques based on a 60% pigment-containing masterbatch in which 10 and 15% of the TiO_2 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.

	White L*	White b*	Blue L*	Grey b*
1.2% TiO_2 Reference	96.4	3.4	46.3	-2.41
1.08% TiO_2 /0.12% FP-550	96.7	2.9	45.6	-2.44
1.02% TiO_2 /0.18% FP-550	96.9	2.5	45.3	-2.34

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 TiO_2 pigment in polyolefin masterbatches. The recommended replacement level is between 10% and 15%. **FP-550** Opacity Pigment™ should be added with the TiO_2 during normal masterbatch preparation.



About FP-Pigments

FP-Pigments produce composite pigment products for the Paint, Plastic, Paper and ink industries. A patented coating technology enables the production of a specially designed pigment with a perfectly controlled particle size, refractive index and morphology.

The engineered composite structure results in the optimised packing and spacing of pigment particles in the end use matrix leading to increased efficiency of the TiO_2 pigment.

FP-Pigments has state-of-the-art production facilities in Europe and the USA

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