

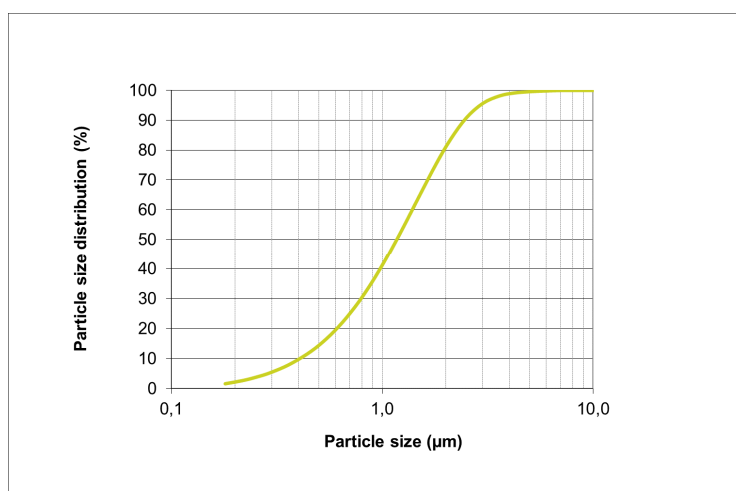
## FP-550 OPACITY PIGMENT

FP-550 is unique opacity pigment powder for use in plastic applications. FP-550 is designed to give optimal optical properties enabling partial replacement of TiO<sub>2</sub> in plastics.

### FP-550 TYPICAL PIGMENT PROPERTIES

These are typical values but do not constitute specifications.

Dry Solids	%	99.0
Brightness (ISO)		95.0
L* value		98.8
b* value		1.4
Specific Surface Area (BET)	m <sup>2</sup> /g	10.0
Average Particle Size	µm	1.2
Specific Gravity		2.8
Oil absorption	g/100 g	41.0
Surface coating		organic



**DISCLAIMER OF LIABILITY** The information herein is based on technical data that we believe is accurate and reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of use this information are beyond our control. For this and other reasons, we do not assume responsibility and express disclaim liability for loss, damage or expense arising out of or in any way connected with any use of this information.

FP-Pigments GmbH  
Am Haupttor 2176  
DE-06237 Leuna  
DEUTSCHLAND  
[www.fp-pigments.com](http://www.fp-pigments.com)

Telefon:  
+49 (0) 3461 43 77 00  
Telefax:  
+49 (0) 3461 43 77 10

FP-Pigments Inc.  
3 Southern Industrial Blvd  
Rome, GA 30165  
USA  
[www.fp-pigments.com](http://www.fp-pigments.com)

Phone:  
+1-706-234-1215  
Telefax:  
+1-706-234-1219

Sitz der Gesellschaft: DE-06237 Leuna, Amtsgericht Stendal HRB 7593  
· Geschäftsführer: Markus Blomquist · USt-IdNr.: DE 259 153 073

### Polyethylene and Polypropylene Masterbatch

- 1: Test using a replacement ladder of 10, 15, 20% Opacity Pigment.
- 2: Make a 1:1 weight for weight replacement of  $\text{TiO}_2$  with Opacity Pigment, eg
  - i) a 10% Replacement in a 70%  $\text{TiO}_2$  Masterbatch becomes 63.0%  $\text{TiO}_2$  and 7.0% Opacity Pigment.
  - ii) a 15% Replacement in a 70%  $\text{TiO}_2$  Masterbatch becomes 59.5%  $\text{TiO}_2$  and 10.5% Opacity Pigment.
  - iii) a 20% Replacement in a 70%  $\text{TiO}_2$  Masterbatch becomes 56.0%  $\text{TiO}_2$  and 14.0% Opacity Pigment.
- 3: For the optimum performance, the FP-Pigment should be premixed with the other dry ingredients as normal using a Henschel type blender.
- 4: Extrude under standard conditions using vacuum degassing if appropriate.
- 5: The new Masterbatch products should be tested against the pure  $\text{TiO}_2$  control in application as a 1 for 1 replacement.

Blown film Opacity of  $\text{TiO}_2$ /FP-550 in PE  
(from 60% prepared masterbatch ISO EN 2471)

