

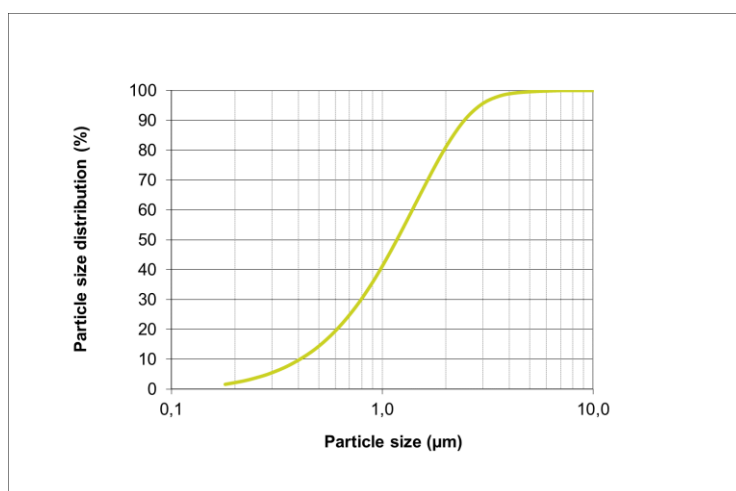
FP-550 OPACITY PIGMENT™

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 TiO₂ 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 ² /g	10.0
Average Particle Size	µm	1.0
Specific Gravity		2.8
Oil absorption	g/100 g	41.0
Surface coating		organic



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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 TiO₂ with Opacity Pigment™, eg
 - i) a 10% Replacement in a 70% TiO₂ Masterbatch becomes 63.0% TiO₂ and 7.0% Opacity Pigment™.
 - ii) a 15% Replacement in a 70% TiO₂ Masterbatch becomes 59.5% TiO₂ and 10.5% Opacity Pigment™.
 - iii) a 20% Replacement in a 70% TiO₂ Masterbatch becomes 56.0% TiO₂ 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 TiO₂ control in application as a 1 for 1 replacement.

Blown film Opacity of TiO₂/FP-550 in PE
(from 60% prepared masterbatch ISO EN 2471)

