

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)

