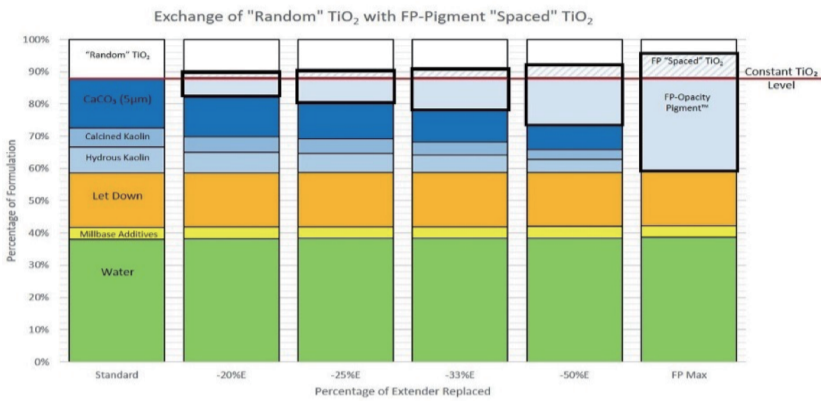


# 塗料・プラスチック用酸化チタンを部分代替する 高性能 Opacity Pigment™

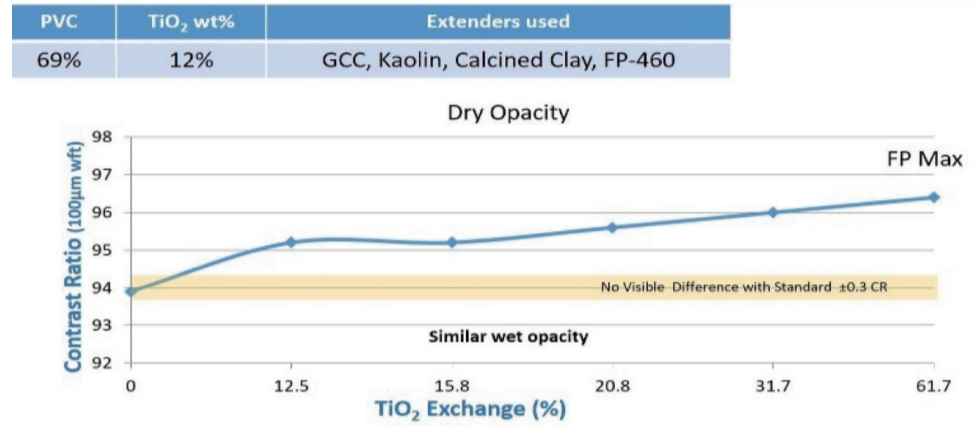
## 塗料

●酸化チタン 一次粒子を300nm間隔で配置

●隠蔽率を大幅改善



	Standard	-20%E	-25%E	-33%E	-50%E	FP-MAX
Volume Solids %	31.1	31.1	31.1	31.1	31.1	31.1
Weight Solids %	51.5	51.4	51.4	51.3	51.3	51.0
pvc %	69.0	69.1	69.2	69.2	69.3	69.6
TiO <sub>2</sub> vc %	14.0	14.0	14.0	14.0	14.0	14.0
TiO <sub>2</sub> wt %	12.0	12.0	12.0	12.0	12.0	12.0
% TiO <sub>2</sub> Exchanged	0.0	12.3	15.3	20.3	30.7	61.3



	CR STD	CR 20%E	CR 25%E	CR 33%E	CR 50%E	CR 100%E
Std	93.9	95.2	95.2	95.4	96.0	96.4
Wet Hide	=	=	=	=	=	=

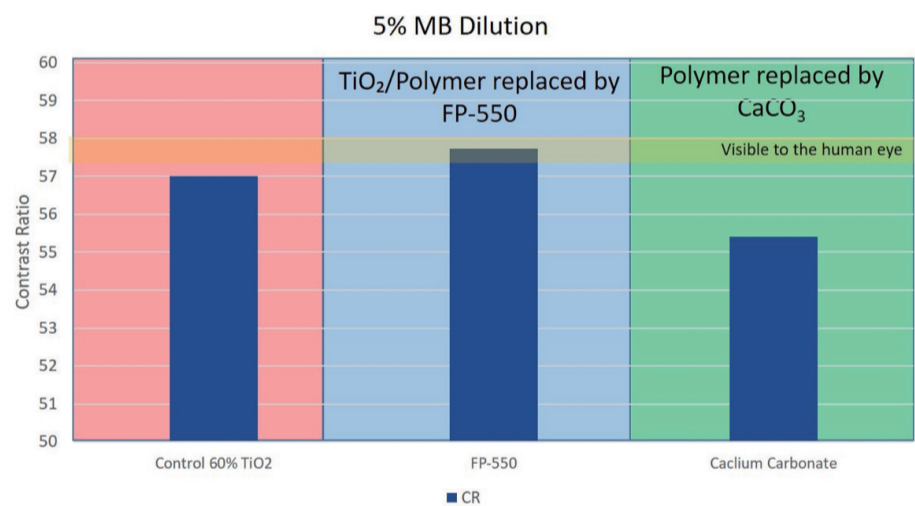
## LDPE

●隠蔽率の改善

●コストダウンに貢献

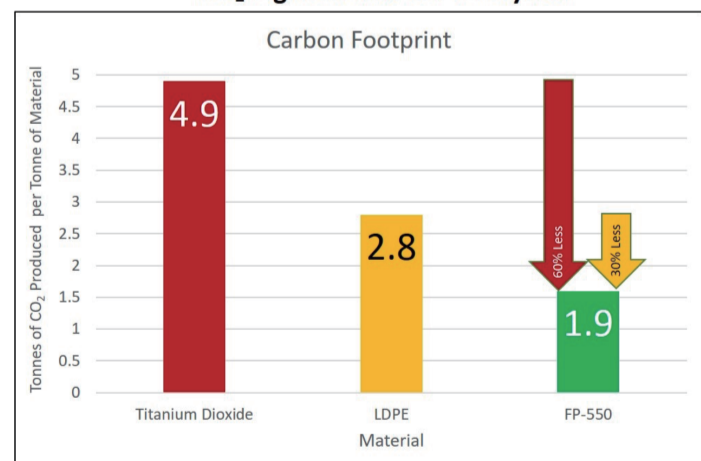
●カーボンフットプリントを大幅に削減

### Opacity – Contrast Ratio



	Raw Materials	60% TiO <sub>2</sub> Masterbatches	
Control 60% TiO <sub>2</sub> Masterbatch	TIOXIDE® R-FC-5	60.0 %	
	Polymer LDPE POWDER - MELT 20	40.0 %	
	<b>Total</b>	<b>100%</b>	
Test Products		FP Pigment	CaCO <sub>3</sub>
	TIOXIDE® R-FC-5	55.0 %	60%
	FP-550 Opacity Pigment™	25.0 %	
	Polymer LDPE POWDER - MELT 20	20.0 %	20%
	Calcium Carbonate		20%
	<b>Total</b>	<b>100.0 %</b>	<b>100.0 %</b>
	<b>TiO<sub>2</sub> Content</b>	<b>60%</b>	<b>60%</b>

### Reduction in Carbon Footprint Compared with TiO<sub>2</sub> Pigment and LDPE Polymer



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