

### TOR BRITE® F Product Specification

AIO(OH) content, %	99.9
LOI, %	17
Whiteness, (CIE L*)	98
Physical Form	White
Particle Size – d <sub>50</sub> , µm	1.0
Oil Absorption, %	28
Mohs Hardness	4
Refractive Index	1.7
Specific Density, g/cm <sup>3</sup>	3.0

TOR BRITE® F is a unique, high quality synthetic TiO<sub>2</sub> synergist offering exceptional whiteness / brightness (high L\* value and low b\* value) in partially replacing White TiO<sub>2</sub>.

TOR BRITE® F is heat stable to 340°C with flame retardant / smoke suppressant behaviour and has excellent exterior durability and chemical resistance.

In plastics, TOR BRITE® F has good mechanical properties (tensile strength and elongation) and in comparison to White TiO<sub>2</sub>, exhibits lower abrasion for longer equipment life.

### TOR BRITE® F – Performance at Different % of White TiO<sub>2</sub> Replacement

TiO <sub>2</sub> %	TorBriteF%	Masterbatch Load %	PP PLAQUE mm	L	a	b	ΔE	Opacity
<b>REFERENCE - 60%TiO<sub>2</sub></b>								
60%	0%	2%	PP 1 mm	94.70	-1.40	1.04	0.00	94.81
			PP 3 mm	96.60	-1.47	3.04	0.00	99.15
<b>57%TiO<sub>2</sub> + 3%TorBrite F = 5 % TiO<sub>2</sub> Replacement</b>								
57%	3%	2%	PP 1 mm	94.65	-1.30	0.45	0.60	94.86
			PP 3 mm	96.60	-1.25	2.95	0.24	98.95
<b>55%TiO<sub>2</sub> + 5%TorBrite F = 8.33% TiO<sub>2</sub> Replacement</b>								
55%	5%	2%	PP 1 mm	95.00	-1.25	0.90	0.36	94.85
			PP 3 mm	96.30	-1.30	3.05	0.34	98.89
<b>50%TiO<sub>2</sub> + 10%TorBrite F = 16.67% TiO<sub>2</sub> Replacement</b>								
50%	10%	2%	PP 1 mm	93.10	-1.38	0.33	1.75	90.52
			PP 3 mm	95.15	-1.73	3.16	1.48	97.96

### Mohs Hardness

