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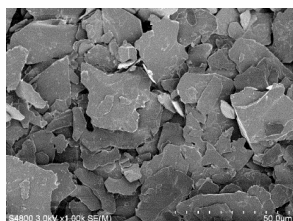
Micro TiO₂ Composite Sericite

- By combining sericite JS-A with fine particle titanium dioxide grants an UV shielding effect.
- MTE-57ST (35nm TiO₂ composite sericite) has an excellent UV shielding effect.
- MTE-77ST (80nm TiO₂ composite sericite) can also expect to have a blue-light protection effect.

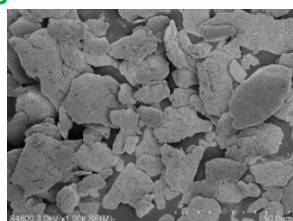
Composition

INCI	MTE-57ST	MTE-77ST
MICA	53.4%	
TITANIUM DIOXIDE	43.7%	
STEARIC ACID	2.9%	

SEM Image



JS-A



MTE-57ST

Emulsion Evaluation

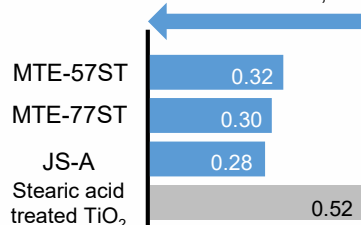
SPF/UVAPF *in vitro*

Sample	SPF	UVAPF
MTE-57ST	26	8
MTE-77ST	13	11
Stearic acid treated TiO ₂	5	4

Formulation : W/O emulsion
Dosage : 10%(as TiO₂)
Amount of coating : 1.3mg/cm²
Base : PMMA
Measurement : SPF Analyzer UV-2000S

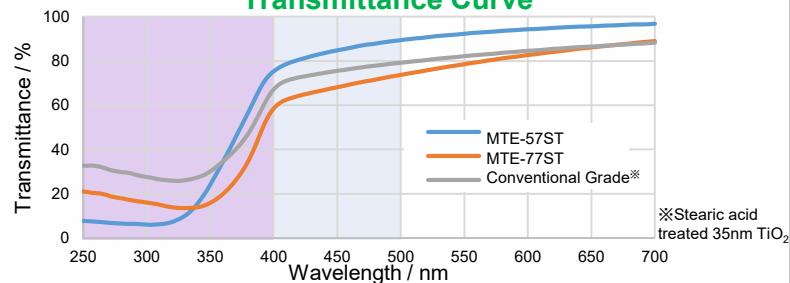
Comparison of Average Coefficient of Friction

The lower the value, the smoother



Amount of coating : 2.0mg/cm²
Base : Artificial leather
Load : 50g
Speed : 1.0mm/sec
Measurement : Friction tester KES-SE (Kato-tech Co., Ltd)

Transmittance Curve



Formulation : W/O emulsion Application method : Automatic Bar Coater
Dosage : 7%(as powder) Base : Polypropylene film
Film thickness : 10μm Measurement : Spectrophotometer HITACHI U-4100

Sericite JS Series

	JS-A	JS-1	JS-S
Characteristics	Smooth feeling, High transparency	Moist feeling, Matte feeling	Crystalline silica free
INCI	MICA	MICA	MICA
Whiteness※1	≥ 90.0	≥ 90.0	≥ 90.0
Loss on drying※2	% ≤ 1.0	% ≤ 1.0	% ≤ 1.0
Loss on ignition※3	% ≤ 2.0※4	% ≤ 9.0	% ≤ 2.0※4
Acid solubles※3	% ≤ 2.0	% ≤ 2.0	% ≤ 2.0
Lead※5	ppm ≤ 10	ppm ≤ 10	ppm ≤ 10
Arsenic※5	ppm ≤ 2	ppm ≤ 2	ppm ≤ 2
Antimony※5	ppm ≤ 5	ppm ≤ 10	ppm ≤ 5
Cadmium※5	ppm ≤ 3	ppm ≤ 3	ppm ≤ 3
Mercury※5	ppm ≤ 1	ppm ≤ 1	ppm ≤ 1

※1 : Hunter's method ※2 : 5.0g, 105°C Constant weight ※3 : JSQI 2006, Sericite purity test (1)
※4 : US FDA「 § 73.1496 MICA(b)」 ※5 : Total dissolution analysis using atomic absorption spectrometer