

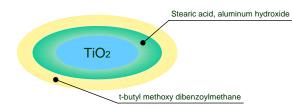
Hybrid micro titanium dioxide HXMT-100ZA

This product is made by surface processing t-butyl methoxy dibenzoylmethane with micro titanium dioxide and solves the issue of t-butyl methoxy dibenzoylmethane crystallization to exhibit an excellent UV-A shielding effect and SPF effect. In addition, the product maintains its UV shielding effect at a high-level due to the improved photodurability of t-butyl methoxy dibenzoylmethane.

• UV-A shielding effect

Features

- Solution of the issue of t-butyl methoxy dibenzoylmethane crystallization
- Excellent UV-A shielding effect and SPF effect
- Maintenance of UV shielding effect due to improved photo-durability
- Conceptual diagram of hybrid powder



• General characteristics

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Appearance	Pale yellow powder
Titanium dioxide	60%
Titanium dioxide crystallization	Rutile
Average primary particle size of titanium dioxide	15 nm
Surface processing agents	Stearic acid Aluminum hydroxide t-butyl methoxy dibenzoylmethane
Residue on drying	3%
Loss on ignition	30%
Surface property	Lipophilic

100 80 60 40 20 250 300 350 400 450 500 550 600 650 700 Wavelength/nm HXMT-100ZA Micro titanium dioxide

 Form:
 W/S emulsion

 Active ingredient:
 10%

 Film thickness:
 12 µm

 Basic material:
 Polypropylene

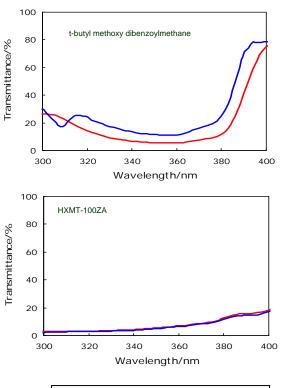
 Measurement:
 Hitachi UV-3000 spectral photometer

• SPF (in vivo)

	SPF	PFA	
HXMT-100ZA	37	8	
Micro titanium dioxide	28	5	

Form: W/S emulsion Active ingredient: 10% Coating volume: 2 mg/cm² Measurement: In accordance with JCIA method

• Durability against UV rays



Prior to UV shielding After UV shielding

 Form:
 W/S emulsion

 Active ingredient:
 10%

 Coating volume:
 2 mg/cm²

 Basic material:
 Transpore tape

 UV radiation level:
 10 MED

 Measurement:
 Hitachi UV-3000 spectral photometer

