ET-521W

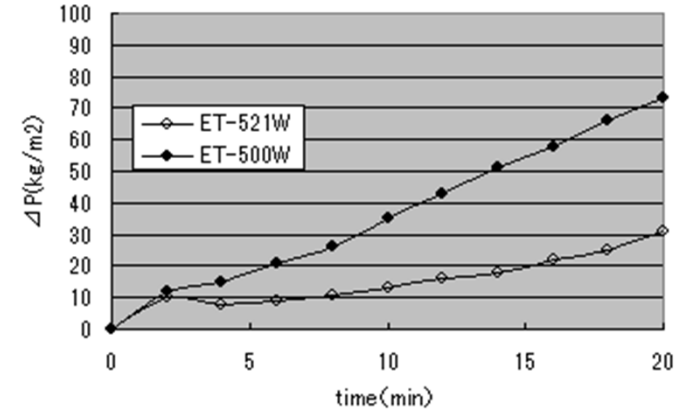
Electroconductive Titanium Dioxide

ET-521W is a product of ISK's white electroconductive materials (ET Series) which are made of titanium dioxide with a thin SnO_2/Sb layer. To satisfy the requirement of the anti static electricity in artificial fiber, ISK has successfully developed ET-521W which can be added to thermoplastic resins easily.
Besides high dispersibility into the matrix of the plastic, ET-521W also provides high electro-conductivity and brighter whiteness when it is composed in bulk plastics.

Basic Properties

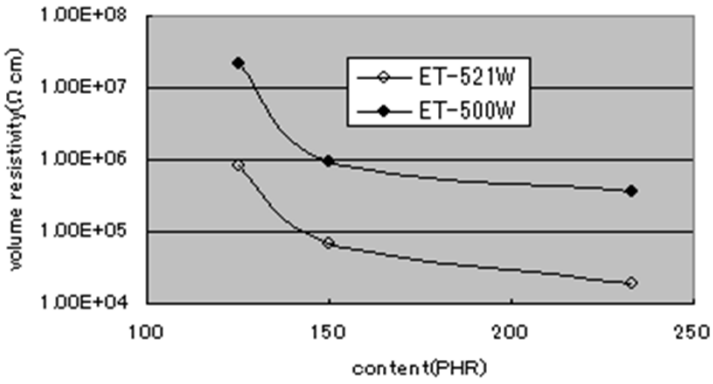
	ET-521W	ET-500W
Composition	**TiO_2, Sb doped SnO_2**	TiO_2, Sb doped SnO_2
Crystal Form of Base TiO_2	**Rutile**	Rutile
Particle Size(μm)	**0.2~0.3**	0.2~0.3
Powder Resistivity(Ω･cm)	**1.3**	2.7
Powder color(L value)	**85.6**	84.7

Dispersibility in LDPE Resin



1.Mixing
ET sample + LDPE resin (50 PHR)
Mixed with V type mixer
2.Kneading
Twin-screw type extruder
Temperature :220℃～230℃
Screen mesh : #40－#400－#40mesh
3.Measurement
Die head pressure at every fixed time.

Electroconductivity



1. Mixing
ET sample＋LDPE resin+magnesium stearate (125～233PHR)
2. Kneading
Twin-screw type extruder
Temperature :220℃～230℃
3. Sheeting
Hot press

Local Insight, Global Impact

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