

## HSINSOU ET-P110 Permanent Antistatic granules

HSINSOU ET-P110 are high polymer, permanent antistatic granules. They reduce the surface resistivity of the polymeric materials and give a long-lasting antistatic property by formatting of a conductive percolation network. This network will dissipate the electric charge across the surface and throughout the bulk of the polymeric materials. HSINSOU ET-P110 are applicable to TPU and TPR plastic base compounding. If incorporation with the recommend amount, the surface resistivity of application can achieve  $10^9 \sim 10^{12} \Omega/sq$ .

<b>1</b> • I hysical properties
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Items		Unit	Test Method	Typical Value
Appearance				Colorless, granules
Specific Gravity		gr/c.c.	ASTM D-792	1.22 <u>+</u> 0.02
100% MOD		kg/cm <sup>2</sup>	ASTM D412	32±5
Elongation		%	ASTM D-412	1000 ↑
Tensile Strength		kg/cm <sup>2</sup>	ASTM D-412	190±10
Tear Strength		kg/cm	ASTM D-624	70±10
Surface Resistivity		$\Omega/sq$	ASTM D-257	$10^7 \sim 10^8 \Omega/\mathrm{sq}$
R.I.			ASTM D-542	1.50
Thermal d	egradation			
temperature		°C		290°C
Heavy	Pb+	ppm.	US EPA3050B	N.D.
metal	Cd	ppm.	EN1122	N.D.
analysis	Hg+	ppm.	US EPA3052	N.D.
	Cr+ <sup>6</sup>	ppm.	US EPA7196A	N.D.

## **Ⅱ**. Feature:

- 1. HSINSOU ET-P110 minimally affect physical properties and the mechanical strength of polymer after compounding.
- 2. Permanent antistatic property (maintain an antistatic property even after washing and wipe)
- 3. Applicable to antistatic packing.

- 4. HSINSOU ET-P110 are colorless, they will not change the polymer's color even after incorporation.
- 5. Stable in high-temperature and remain, unchanged after molding process.
- 6. A type of thermoplastic, is Odorless, not-poisonous and safe for the environment.
- 7. Good compatibility with TPU and TPR

**III**. Application:

Recommend amount (for reference only).

Basic name	TPU, TPR
Use	
amount	$5\% \sim 15\%$
Surface resistivity	
$\Omega/sq$	$10^8 \sim 10^{-10}$

**\*Caution:** the optimal use levels are determined by example result of performance test.

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