November 1, 2022

Sample AS-307

― Permanent antistatic agent ―

Features

- Easy to handle pellet form
- Perform immediately and last long-term antistatic effect
- Exhibits low influence of relative humidity on the antistatic performance
- Can maintain the antistatic performance after washing and wiping
- No bleed-out, No polluting
- Amine free and Halogen free

Applications

- Polyolefins such as LLDPE, LDPE and Polypropylene
- Sealant and Elastomer such as EVA, EEA and EPDM
- Anti-dust applications such as films, sheets and Intermediate bulk container
- Preventing electrostatic discharge applications such as containers and packages of electric devices such as IC chip and printed circuit board

Physical and chemical properties

- Appearance White ~ Pale yellow pellet
- Melting point ca. 80 °C
- Thermal stability (TGA, 10℃/min, N_2 200ml /min) 1% weight loss temperature：over 300 °C
- Solubility（g/100g solvent at 25 ℃） Water: Insoluble

* Above value of properties are just typical, not specific

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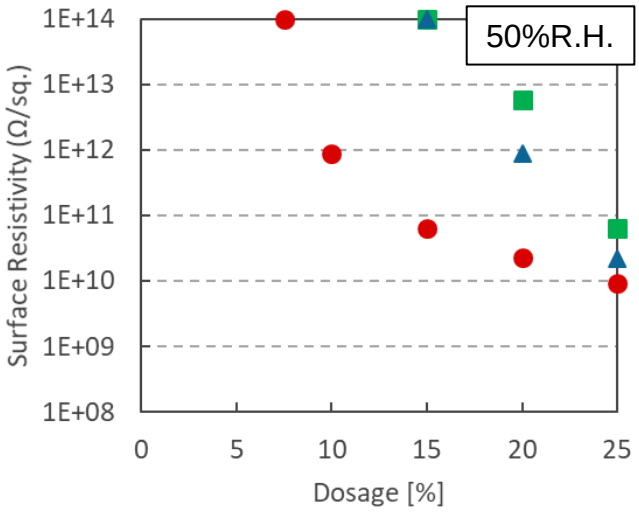
Performance

- Sample AS-307 can control the surface resistivity of the article from 10^9–10^{12} Ω/sq.
- Recommended dosage

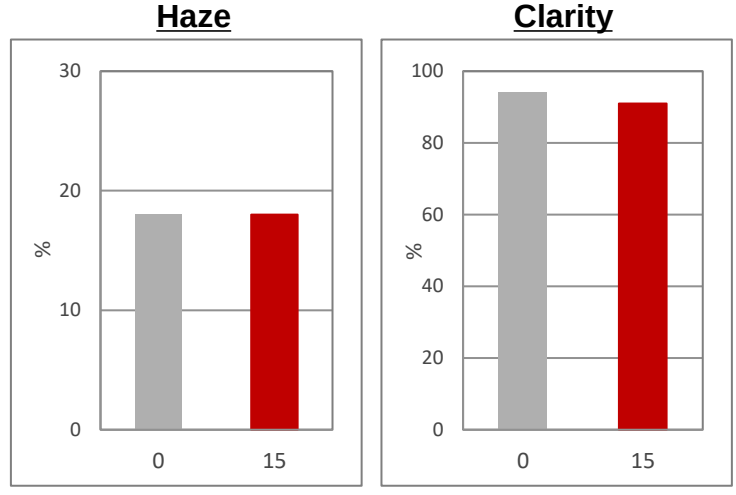
  Anti-dust application (10^{11}–10^{12} Ω/sq): 10–15 wt%

  Preventing electrostatic discharge application (10^9–10^{10} Ω/sq): 15–25 wt%

Surface resistivity:
LLDPE(MFR=2, 50μmt)

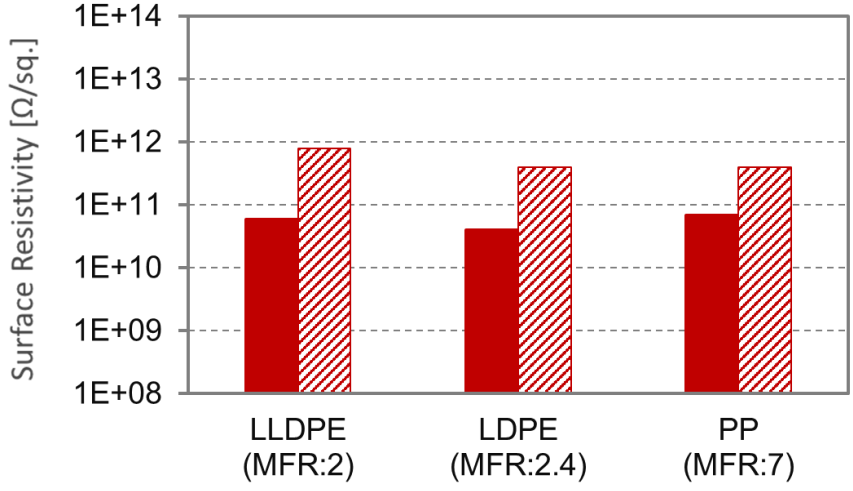


Film appearance:
LLDPE(MFR=2, 50μmt)



Formulation: LLDPE(100-X)/ Antistatic Agent(X)
Compounding: 180 ºC, T-die Casting: 180 ºC, Cooling roll: 40 ºC, Thickness: 50μm
Measurement: JIS K6911(SR), ISO 14782 (Haze, Clarity)
●: AS-307 ▲: Conventional product 1 ■: Conventional product 2

Surface resistivity: 50μmt, 15 wt% of AS-307, 50%R.H. and 20%R.H.



Handling and storage

- This product is very hydroscopic. Please store in the original container securely under cool and dry conditions. After opening, please use immediately.
- If moisture absorption is suspected, drying at 70 °C for 5–6 h under vacuum (<1.3 kPa) or 7–8 h by hot-air prior to use is recommended.
- Protective clothing should be worn when operators are handling or being exposed to this product. Please review the SDS for further detailed advice.

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