



QINGDAO SANHUAN COLORCHEM CO., LTD.

17 FLOOR, YUHENG BUILDING, NO.170
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TECHNICAL DATA SHEET

THERMO-EXPANDABLE MICROSPHERES

SH-6006

SH-6006 is polymeric core/shell particles with volatile hydrocarbon encapsulated by a thermoplastic shell with particle size ranging 10-50 μ m. When heated to Tg of the shell, the thermoplastic shell softens, the hydrocarbon inside the shell gasifies and expands, and the volume of the microspheres increases by tens of and up to hundreds of times, thus achieving a foaming effect. By rationally designing shell wall, optimizing of the synthesis process and foaming agent formula, thermal expandable microspheres are obtained with various foaming temperatures and foaming ratios.

Applications:

- 1、 Three-dimensional effect: ink printing, drawing, braille embossing, wallpaper, fabric, etc.
- 2、 Anti-slip additives: carpet, cardboard, synthetic fiber products, etc.
- 3、 Coating: leather coating, automobile chassis coating, automobile interior decoration, textile, paper, etc.
- 4、 Lightweight materials: lightweight clay, toys, porous ceramics, wine bottle stoppers, PVC blowing slippers, foam rubber, etc.
- 5、 Performance improvers: artificial marble, cables, adhesives, etc.

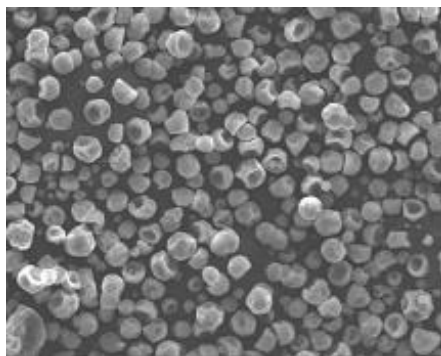


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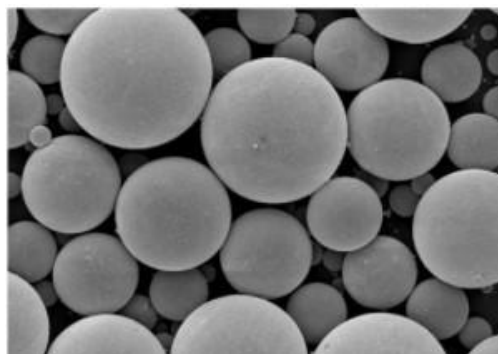
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Before foaming



After foaming

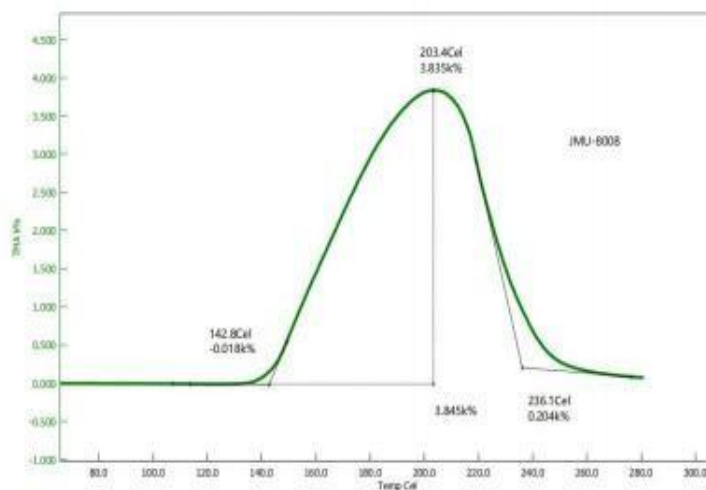


Key Specifications

Product code	Appearance	Shell Material	Average particle size	T- start	T- max	Solid content
SH-6006	White powder	Acrylonitrile copolymer	20-35 μm	135-145 $^{\circ}\text{C}$	195-210 $^{\circ}\text{C}$	>97%

Package:

20kg paper valve bag or 50kg paper drum lined with plastic bag



Important statement: The consulting technical information and instructions provided by our company either in the form of oral, written or test reports, are all guidance to users, not guarantees. The company does not guarantee that a certain product will be suitable for a certain purpose. The user needs to test whether the product and formula are suitable for its process and purpose before use. The company only guarantees the continuity of product quality.