



TECHNOLOGY

Multihollow Polymer Particles by Dispersive Suspension Polymerization

OVERVIEW

Porous polymer particles are used in filters, catalysts, sensors, electronic displays, and insulating materials, among others, due to their low density and low heat capacity characteristics. The polymer particles are made by suspension and dispersion polymerization techniques having single phase morphology.

Researchers at the University of Maryland have developed a novel suspension polymerization technique in which dispersion polymerization occurs within each monomer-polymer particle. When the resulting polymer particles are dried, multiple hollows are seen on the particle surface or inside the particle. This technique produces thermoplastic vinyl polymer particles with multiple hollows of less than one micron.

If you would like to review additional information or further discuss the technology with the inventors please contact the Office of Technology Commercialization at 301-405-3947 or otc@umd.edu.

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Additional Information

INSTITUTION

University of Maryland, College Park

PATENT STATUS

Patent(s) pending

LICENSE STATUS

Contact OTC for licensing information

CATEGORIES

- Materials
- Chemical

EXTERNAL RESOURCES

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