

Improve wettability of plastics with ModySplash™

Plastics are used in many applications where water wettability is critical to the performance of products. Most plastics are water repellent, which is also called hydrophobic, because of their low surface energy. The ability of a surface to “wet” is highly dependent on the polarity, or energy, of the surface. While several options to increase the surface energy of plastic materials, including dip or chemical coating, are available to product designers or engineers, these techniques do not perform well enough and have a negative effect on product efficacy.

Inhance Technologies wettability control technologies improve materials for a wide range of markets and applications. ModySplash™ improves the wettability of plastics by permanently increasing surface energy. ModySplash™ creates a hydrophilic, highly wettable surface, which not only aids thin film formation but also enables wet-out, absorption, and quick-drying characteristics.

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*NWSP 70.3 and NWSP 70.7
(NonWovens Standards Procedures)

Advantages of ModySplash™

- Improves wettability
- Permanently increasing the surface energy of plastics and nonwovens
- Enables quicker and faster absorption of liquids
- Thin film formation ensures results are quick drying
- High printing quality on plastic substrates
- Durable
- Environmentally friendly choice



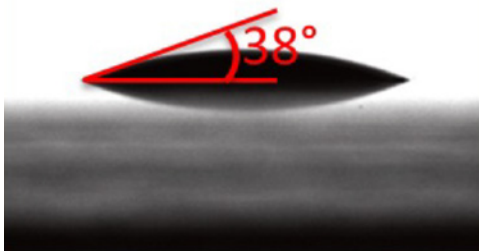
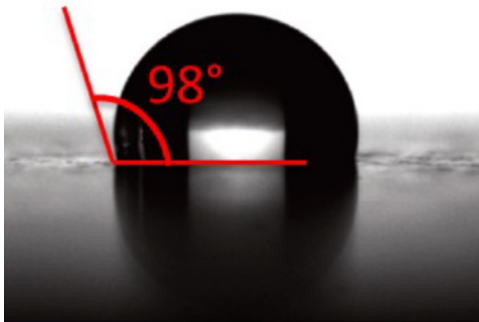
ModySplash™

Applications

ModySplash™ is used to activate plastic films, nonwovens and molded articles across many industries for various applications. Applicators for cosmetics, wound dressings, personal care articles and water purification filters are just a small list of examples where wettability is vital to product performance.

- Consumer goods – Cosmetics, personal care, kitchenware, DIY
- Industrial – Filtration membranes and cartridges, applicators
- Healthcare – Wound care, incontinence products

ModySplash™ can be used to treat discrete parts as well as continuous roll goods and fibers.



Increased surface energy of PP non-woven fabric treated by Inhance Technologies' ModySplash™ (on the top, surface energy is 28 dyne/cm (contact angle 98°), on the bottom, surface energy is 60 dyne/cm (contact angle 38°). Testing conducted per ASTM D7490-13.



Inhance Technologies ModySplash™ can be applied to a number of industries to improve performance and suitability. ModySplash™ offers peace of mind by not only offering better technology, but also committing to making the world a better place in the process.

At Inhance Technologies, our focus is—and will always be—on using technology as a means to achieve a more sustainable future. As a global technology transformation partner specializing in plastics and chemicals, we believe in the science of better: innovating safer, environmentally friendly and more sustainable materials. Our sustainable manufacturing processes produce zero solids waste, zero water waste and zero emissions.

Inhance Technologies is an ISO9001:2015 and RC14001:2015 certified company.

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ModySplash™ is a product in the Modyfy™ line of surface technologies.