

## SOLUTION SHOWCASE

### Medical Inhalation Devices

Medical inhalers are complex, functional differentiated devices with high requirements for tribological and mechanical material properties. Celanese offers multiple solutions to address critical needs across all inhaler types including parts for drug contact.

#### CELANESE MATERIAL OFFERING

- **Hostaform® MT® POM & Celanex® MT® PBT** meet demanding low friction and mechanical requirements
- **Hostaform® MT® SlideX® POM** delivers superior low stick-slip performance from first actuation
- **Hostaform® MT® POM colors & Celanex® MT® PBT laser markable** grades decrease manufacturing chain complexity and overall costs
- **Vectra® MT® LCP & Fortron® MT® PPS** are high strength materials for complex components and integration of electronics

#### CELANESE DIFFERENTIATING CAPABILITIES

- Industry-leading experience in supporting the development of inhalation devices
- Extensive tribological technical expertise on material pairings and interactions with in-house testing capabilities
- Medical Technology Service Package - risk reduction and increased stability for customers; support throughout the product life cycle, including regulatory and long-term supply assurance

#### TARGET PARTS

- Moving parts and valves
- Low friction gear assemblies
- Metering assemblies, dose counters and indicators
- Breath release mechanisms and spring assemblies
- Filter grids, meshes, piercing elements and mechanisms
- Drug contact and air flow parts





## PRODUCT FEATURES

### PRODUCT PORTFOLIO FOR INHALERS

- **Hostaform® MT® POM & Celanex® MT® PBT** offer precision molding of mechanical strong and durable components with excellent tribological properties
- **Hostaform® MT® SlideX® POM** for superior low friction performance from the first actuation through special tribological technology without need for external lubrication
- **MT® POM & PBT custom color, laser markable and UV detectable** grades offer reliable high quality compounds for appearance parts, brand identification, serialization and anti counterfeiting
- **Vectra® MT® LCP & Fortron® MT® PPS** for excellent moldability of thin parts with superior mechanical strength and LDS grades for integrated electronics

MT®: Medical Technology

\*Vectra LDS grades do not have certified biocompatibility

### CELANESE MEDICAL TECHNOLOGY SERVICE PACKAGE INCLUDES

- Certified biocompatibility (USP Class VI / ISO 10993)\*
- Food contact compliance (US FDA and EU)
- Animal- and latex-free formulations
- US FDA Drug & Device Master file listing
- Production according to GMP principles
- Additional analytical & individual batch testing
- Notification of Change procedure

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