

SOLUTION SHOWCASE

Wearable Injection Pumps

Overall growth in biologics from the Pharmaceutical industry is accelerating medical device innovation to deliver higher volume treatments at home. Performance reliability and user comfort are some of the critical needs for which Celanese offers Designers and OEMs a variety of solutions.

CELANESE MATERIAL OFFERING

- **Vectra® MT® LCP** offers design and production efficiencies when used for the internal chassis
- **Hostaform® MT® SlideX® POM** and **Celanex® MT® PBT** used in internal components offer exceptional low friction and low wear properties improving patients device experience.

CELANESE DIFFERENTIATING CAPABILITIES

- **Industry-leading experience** in part design and development for injection 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

MT® Medical Technology

PRODUCT PORTFOLIO FOR WEARABLE INJECTION DEVICES

Vectra® MT® LCP Portfolio for internal chassis

- Excellent mechanical performance – high stiffness, tight tolerances, dimensional stability, and thinner wall capability to free internal space for integrated electronics and internal components
- Managing processing costs – scalability through higher flow to fill higher number of cavity molds and reduce production cycle times

Hostaform® MT® SlideX® POM & Celanex® MT® PBT Portfolio for gears, bearings and sliding parts

- Excellent tribological and mechanical performance: enables precision mechanical components with low friction & wear, no noise, high strength/modulus, fatigue and creep



PRODUCT FEATURES

VECTRA® MT® LCP

Lighter-weight, increased comfort and greater design flexibility

- **Vectra® MT® LCP MT1305**, a higher-flow grade, modified to provide extraordinary easy flow and low warpage – ideal for highly complex designs and for optimizing material use
- **Broad portfolio of Vectra® MT® LCP** includes glass-filled, mineral-filled, higher-flow, tribologically modified, and appearance grades – suitable for a variety of uses in medical device applications

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

MT®: Medical Technology

*Vectra LDS grades do not have certified biocompatibility

HOSTAFORM® MT® SLIDEX® POM CELANEX MT® PBT

Improved technical properties, processability and patient comfort

- **MT® SLIDEX® grades**
 - excellent performing medical grades with tribological modifiers for low wear & friction, and no noise
 - no running-in effects, suitable for dry run applications
- Appearance Specialties include laser-markable and pre-colored grades

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