

CUSTOMER SUCCESS STORY



**At BASF, we
don't make the
Segway human
transporter.
We make it more
durable.**

Customer: Segway LLC, Bedford, N.H.
C&J Industries, Inc., Meadville, Pa. (molder)
End-Use: Segway Human Transporter (HT) wheels
Product: Ultramid® 8334G nylon 6 grade

PROBLEM: The Segway HT has captivated consumers and businesses alike as one of the most innovative products in recent memory with its ability to intuitively move forward and backward by responding to the rider's position rather than using an accelerator or brakes. Although graceful and agile, the Segway HT is designed to operate on a variety of terrains in virtually any environment, including grass, hills and dirt. As such, its components must be able to withstand a wide range of harsh conditions, including vibration, varying temperatures, moisture and other environmental elements.

"As enjoyable and unique as it is to ride, the Segway HT isn't just about fun transportation," said Ron Reich, Director of Mechanical Design Engineering for Segway.

SOLUTION: Segway LLC and molder C&J Industries, Inc., specified BASF's Ultramid 8334G nylon 6 engineering plastic grade as the material of choice to produce wheels for the Segway Human Transporter (HT).

BENEFITS:

"We had to make the Segway HT tough, and Ultramid nylon has the durability, strength, stiffness and impact resistance needed for rugged use. BASF's 8334G grade can also be custom colored for our wheel designs and has the lot-to-lot consistency that enables this component to be efficiently manufactured," said Reich.

BASF's Ultramid 8334G helps make the Segway HT's wheel:

- Lightweight, yet durable.
- Helps reduce the noise emitted from the drive system.
- Minimizes the need for fasteners that can loosen over time.

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