

Baby Strollers and Seating



Polymers for Strollers:

DuPont™ Performance Polymers make an excellent choice for the durability and performance of strollers and seats. Choosing the right polymers also helps to ensure the safety and comfort of young children in the stroller.

Engineering polymers help influence highly innovative designs, allowing several functions to be integrated into single parts for structural components, often replacing heavier metal parts.

Integrating functionality and using fewer but higher-performing polymers benefits users by reducing total weight. This could result in productivity and cost benefits for the manufacturer.

DuPont™ Zytel® polyamide resin with HTN can be ideal for structural parts requiring strength and stiffness, making it an excellent candidate for metal replacement. DuPont™ Delrin® acetal homopolymer is an excellent choice for moving parts and mechanisms with low friction and high strength. For energy management, suspension and dampening requirements, DuPont™ Hytrel® provides performance in innovative designs and provides long-term performance stability.

Foldable Baby Strollers:

Through innovative designs using DuPont Performance Polymers, these strollers can be conveniently folded and unfolded with just one hand and with minimal effort. Transportation in cars or in planes becomes easier, as parents can focus on the safety and care of the child.

DuPont offers one of the broadest portfolios of engineering polymers and thermoplastic elastomers for use in a variety of applications. These materials offer benefits, including:

- Stronger structure but lighter weight
- Optimal design flexibility for a variety of stroller types
- Outstanding durability with exceptional fatigue resistance
- A smooth, comfortable ride due to resilient suspension thanks to DuPont Hytrel® TPEE elastomer

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Mechanical Features

- High strength and stiffness
- Impact resistance
- Fatigue resistance
- Vibration dampening
- Wear and friction resistance

Key Benefits

- Innovative design and functions
- Safety and comfort
- Durability and reliability
- Sustainability

Products for strollers and seat components:

| Typical Application | DuPont Material | Product Family | Attribute |
|------------------------------------|------------------|---------------------|---|
| Structural stiffness components | Zytel® 80G14 | PA66 | Toughen with 14% GR |
| | Zytel® 80G33 | PA66 | Toughen with 33% GR |
| | Zytel® 73G30T | PA6 | Toughen with 30% GR |
| Higher stiffness components | Zytel® HTN 53G50 | High Performance PA | 50% GR |
| Mechanical/Moving components | Delrin® 900P | Homo-POM | Low viscosity |
| | Delrin® 500P | Homo-POM | Medium viscosity |
| | Delrin® 100P | Homo-POM | High viscosity |
| | Delrin® 500AL | Homo-POM | Medium viscosity + Enhanced wear resistance |
| | Delrin® 100AL | Homo-POM | High viscosity + Enhanced wear resistance |
| Shock & vibration absorption parts | Hytrel® 5556 | TPC-ET | 55D hardness thermoplastic elastomers |
| | Hytrel® 6356 | TPC-ET | 63D hardness thermoplastic elastomers |
| | Hytrel® 7246 | TPC-ET | 72D hardness thermoplastic elastomers |

Let's Talk:

We have the right materials, technology and technical resources to help you design and manufacture superior parts and systems.

Contact Us

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