



**HICOMPELT  
& LAURAMID HYBRID®**

**NEW GENERATION  
COMPOSITES**

**THE BETTER  
COMPOSITE**



## HICOMPELT™

The outperforming T-RTM composite

### The outperforming thermoplast with PA 6C or PA 12C

The brandnew HICOMPELT composite is available with different structural materials, like

- carbon fiber
- glass fiber
- carbon/glass fiber

### T-RTM production

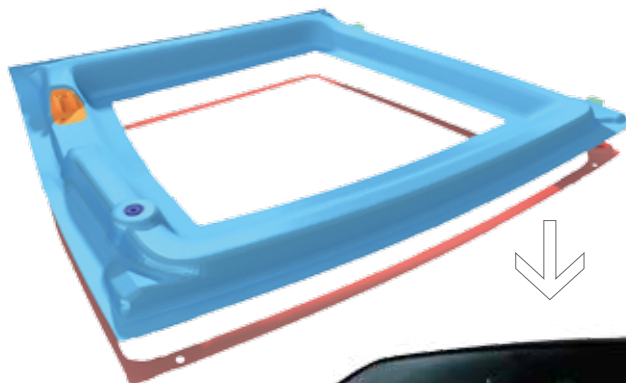
- High batch sizes of up to 100,000 pieces with one single mold
- 65% fiber content
- Net-shape production
- Surface finishes
- No post-machining
- Cycle times as short as 3 min.

### Application examples

- Aerospace
- Automotive
- Structural parts
- Seats
- Rooftops
- Brackets
- Lightly armored vehicles
- Doors
- Frames

### Your benefits

- Excellent price-performance ratios
- Integration of metal hardware
- On-demand melting concept
- Fast turnarounds
- Exceptional strength-to-weight ratios
- Custom-made parts and components
- Elevated mechanical properties
- Robust reparability
- Ease of recycling





## THE MATERIAL REVOLUTION

# LAURAMID HYBRID®

The cast lightweight nylon

### Even lighter weight and more stiffness

– the innovative material Lauramid Hybrid®. The material comprises a core that is encapsulated either fully or partially by the engineering nylon Lauramid® in a pressureless process. During casting, Lauramid® penetrates into the pores of the inner sponged component, thus creating a mechanically inseparable compound. No other joining components are required.

### The patented material compound Lauramid Hybrid® is available as

- Lauramid® plus sponged Aluminium
- Lauramid® plus sponged Aluminium + Kevlar
- Lauramid® plus metal core

### Application examples

- Aerospace
- Automotive
- Rollers
- Toothed wheels
- Boards and pre-cut parts
- Castings



### Your benefits

- 1/3 less weight as compared to solid material
- Ideal combination of extremely lightweight + high rigidity
- Resistant to wear and corrosion
- Resonance-reducing & shock-absorbing
- EMC-shielding
- Excellent dry running properties
- Chemical resistance, also to salt water
- Net-shape casting

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COMPOSITES**

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