

SINTERLINE™

Beyond the limits of rapid manufacturing

Polyamide 6 powder for Selective Laser Sintering - CASE STUDIES



SOLVAY
asking more from chemistry®

Suzuki 1000 GSXAR by Team Motors Event

24H du Mans Moto – Endurance World Championship – Sept 8–9, 2012

Material: Sinterline™ Polyamide 6 powders of Solvay Engineering Plastics



Courtesy of Team Motors Events

Braking system oil container made by e2r (Solution F)



Objectifs

- To test the equipment's durability
 - To gain time and to limit stop due to oil changing, refueling and damages
- With Sinterline™ powder and additive manufacturing technology, a braking system oil container has been designed and developed to gain a tour (1 min 40 secs).

Major needs for Moto part Producer

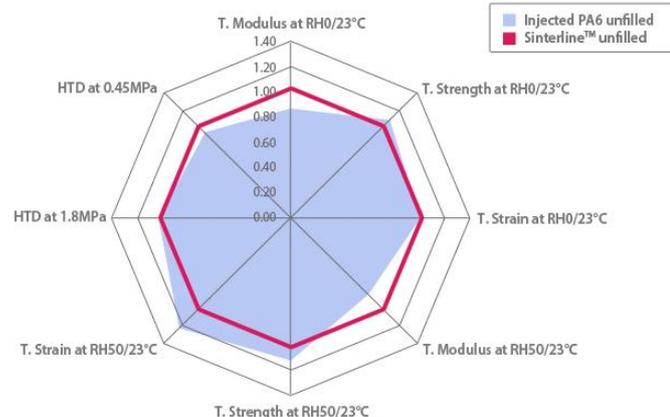
- Accuracy
- Durability
- No design limits
- On demand

"The properties of Sinterline™ and Selective Laser Sintering technology open new possibilities of creation. With Sinterline™ we have created parts for the brake system to gain time in the race. It's also the opportunity to change the design of the electronic system plate, allowing to gain time in case of breakdown"
Marc Mothré - Team Manager - Team Motors Event

Benefits

- Larger braking system oil container for a **10-second gain per tour**.
- Excellent balance of **mechanical and thermal properties** for the production of functional prototypes and small series components.
- Tensile Modulus of **3360 MPa** at 23°C/0% HR Sinterline™ unfilled and of **6010 MPa** at 23°C/0% for Sinterline™ filled with glass fibre.
- **High level thermal performance** compared to PA12 benchmark.

Mimic to injected PA6



To know more:

[Sinterline™ website](#)
[Solution F / e2r website](#)
[Tem Motors Events website](#)

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