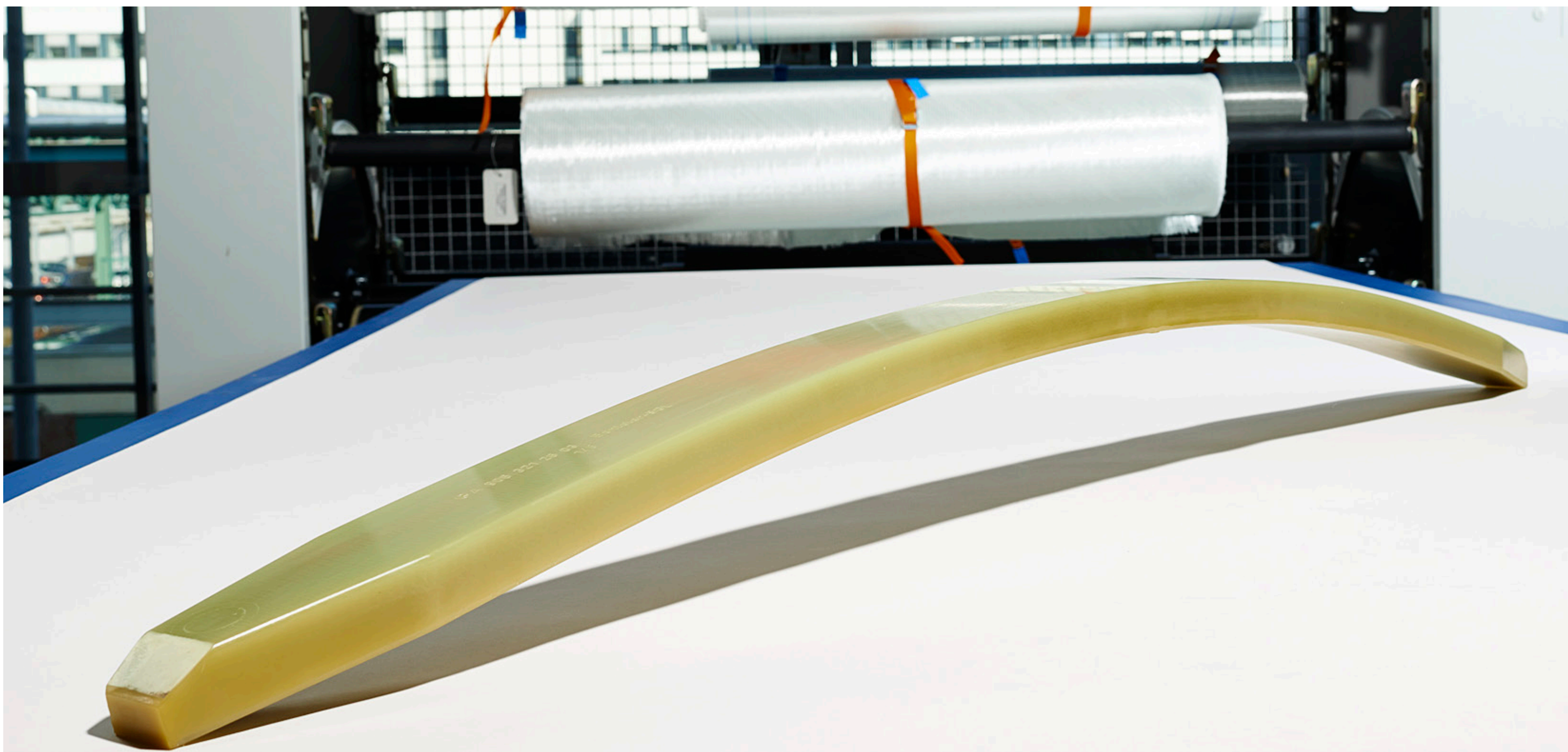


NOMINEE



## Henkel Corporation Composite Leaf Spring

Lightweighting technology: 65 percent weight savings with composite leaf springs manufactured at Benteler-SGL by using Henkel's Loctite matrix resin. Henkel has developed an advanced composite matrix resin based on polyurethanes that is designed for a fast automotive resin transfer molding (RTM) process and for excellent product performance due to high toughness and superior fatigue resistance.



- Front axle composite leaf spring in 2013 Mercedes Sprinter
- Composite leaf springs" with "glass fiber leaf springs
- Weight reduced from 15 kg to 6 kg with material costs of +1 Euro per saved kg
- For the first time in composite industry resin transfer process (RTM) is combined with a polyurethanes matrix resin allowing short cycle time suitable for high volumes production



Presented in collaboration with:

