

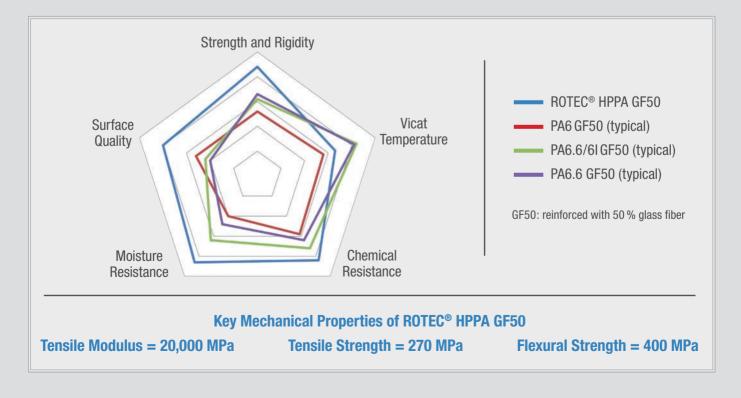
## **ROTEC<sup>®</sup> HPPA** high-performance polyamide

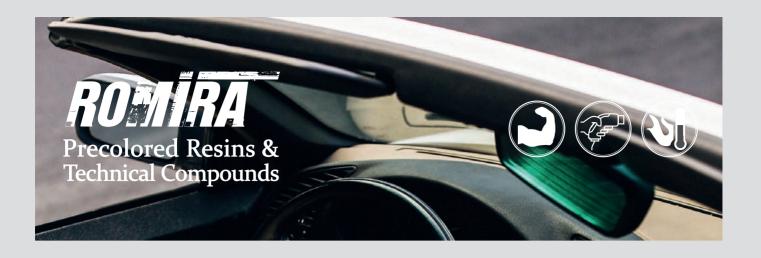
This newly developed ROTEC<sup>®</sup> HPPA is a high-performance polyamide that fills the process and performance gap between standard polyamides and the high-end aromatic polyamides.

ROTEC<sup>®</sup> HPPA contains an aromatic ring in its main chain that provides superior advantages, mainly higher strength and slower rate of moisture absorption. These make ROTEC<sup>®</sup> HPPA well-suited for variety of applications; especially cost-effective metal replacement due to its high strength to weight ratio.

## **ROTEC® HPPA characteristics**

- > A unique combination of metal-like strength and aesthetics
- > Very high rigidity and resistance to mechanical stresses
- > Excellent flowability; suitable for very thin wall parts or injection of large structural parts
- Smooth and high gloss surface even in 50 % glass fiber content, suitable for metallization or producing naturally shiny parts
- > Low thermal expansion (close to aluminum and zinc alloys), suitable for metal replacement or insert molding with metals





## **ROTEC® HPPA superior to standard polyamides**

- > Up to 60 % slower rate of moisture absorption/ very good hydrolysis resistance
- > Up to 30 % stronger/higher modulus
- > Better chemical resistance

## **ROTEC® HPPA application areas**

- > Automotive: exterior and interior parts such as mirror housings, door handles, headlamp surrounds, clutch pedals and cylinders
- > Healthcare: alternative to metal instruments
- > Aviation: lightweight structural components
- > Appliances: shaver heads, vacuum cleaner motor supports and levers

- > Less weight/dimension change over service period
- > Higher surface quality
- > Lower warpage combined with excellent flowability
- > E&E: structural parts in laptops and smart phones, induction motor supports and safety switches, coil bobbins, motor stator cores
- > Others: ski goggles bindings, hinges, bicycle saddle-posts



