



ROTEC® PA6/PA66 CF Polyamides reinforced with short carbon fiber

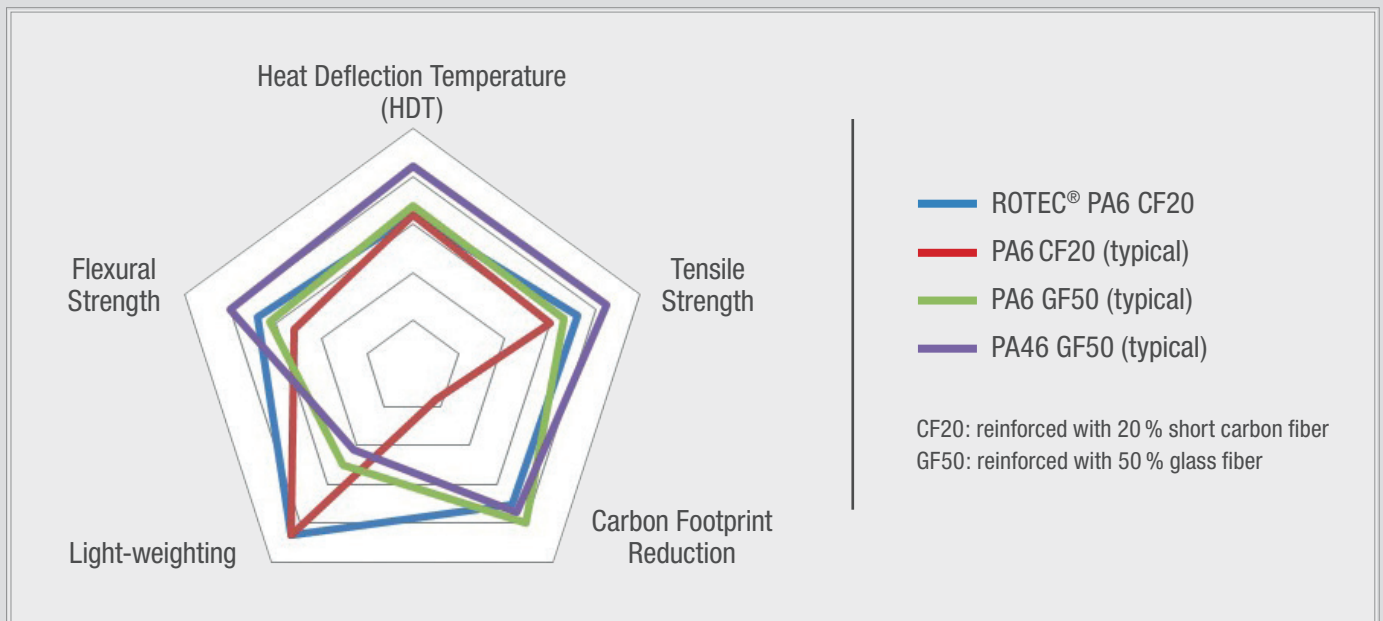
ROTEC® PA6/PA66 CF are the newly developed polyamide compounds reinforced with short carbon fiber with improved strength and impact resistance. These compounds are considered as a lightweight alternative to metals and other high strength compounds. ROTEC® PA/PA66 CF are well-suited for variety of applications; specially as alternative to polyamide compounds with high glass fiber content.

ROTEC® PA6/PA66 CF characteristics

- > High strength to weight ratio
- > Good heat resistance
- > Very high stiffness
- > Excellent wear resistance
- > Resistant to many oils and greases
- > Good mold flow
- > Thermal/electrical conductivity
- > Green and sustainable

ROTEC® PA6 CF20 superior to PA6 GF50

- > 20 % weight reduction due to lower density
- > Higher yield
- > Easier processing due to higher flow ability
- > Better surface quality
- > Lower friction, suitable for tribological applications
- > Less mold maintenance
- > Less CO₂ emission



NEWLY DEVELOPED



ROTEC® PA6 CF green and sustainable solution

ROTEC® PA6/PA66 CF are based on re-processed carbon fiber that is produced from residual/off cuts supplied by leading carbon fiber manufactures. So, they are virgin fibers with homogenous properties as there is no property fluctuation due to mixed fiber types.

This green and sustainable re-processing on prime level results in a remarkable decrease in CO₂ footprint.

ROTEC® PA6 CF20 application areas

- > Automotive: clutch pedals, venting blades, cooling fan, mirror support
- > Leisure/Sports: lightweight accessories, swimming goggles, sports bicycle frame and components, Skiing bindings
- > Others: robotic arms, battery carrier, power tool housing, washing machine drum

