

## RadiciGroup advanced solutions for furniture

The furniture sector requires specialized products that enable **high design freedom and enhanced comfort** in both **home and office environments**. Polyamide compounds are widely used in the home and office furniture segments.

Among the most notable **polyamide applications** are chair backrests and armrests, chair frames, chair mechanism parts, chair cross bases, wheels, desks and various drawer and flap mechanism parts. **Replacing metals with engineering polymers** enables process cost reduction and design **flexibility** for many different applications. RadiciGroup offers several high-performance materials with outstanding **mechanical properties** combined with excellent **aesthetic appearance**.



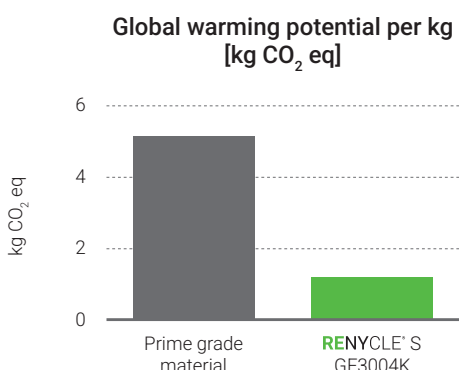
Our **Radilon®** (PA) includes grades suitable for indoor and outdoor use, as well as custom-coloured solutions tailored to our customers' needs. For applications such as motor parts for furniture automation, we propose **Radiflam®** flame-retardant grades. **Radilon® Mixloy** special blends are suitable for both wheels and aesthetic parts.

Materials	Features	Applications
<b>Radilon® S URV300K</b>	30% glass fibre PA6	Office chair parts
<b>Radilon® S URV400L</b>	30% glass fibre PA6	Office chair parts
<b>Radilon® S HS 105M NT</b>	Natural, unfilled easy-flow PA6	Furniture accessories: gaskets, wheels, and feet
<b>Radilon® S RCV3015</b>	PA6 with good dimensional stability	Chair armrests Motor housings for electric standing desks
<b>Radilon® S RV300R</b> <b>Radilon® S RV300</b>	30% glass fibre PA6	Drawer runner parts
<b>Radilon® A RV300</b>	30% glass fibre PA66	Hinge parts Drawer runner parts
<b>Radilon® A RV350HHR</b>	High-temperature-stabilized PA66-GF35	Motor parts for electric standing desks
<b>Radilon® A HSX88</b>	Impact modified PA66	Hinge parts Drawer runner parts
<b>Radiflam® A RV250AF</b>	Flame-retardant PA66-GF25	Motor parts for electric standing desks
<b>Radilon® Mixloy S HSA20T</b>	PA/ABS blends with reduced shrinkage, low water absorption and low density	Chair wheel parts

As awareness of the environmental impact of furniture grows, the **integration of functionality, design and sustainability** is becoming a top priority in today's furniture market.

Our **Renycle®** products perfectly meet the demands of eco-conscious consumers, as they are based on mechanically **recycled polyamide** with a percentage of **certified recycled material**. Renycle® is the ideal choice for applications such as office chair parts, thanks to its **mechanical resistance, good aesthetics** and **reduced environmental impact**.

Materials	Features	Applications
Renycle® S N101 3030 BK	Impact modified and recycled PA6	Chair mechanism parts
Renycle® S GF3004K 3035 BK	30% glass fibre recycled PA6	Chair back parts, chair armrests
Renycle® S GF3003K 3034 BK	30% glass fibre recycled PA6	Chair back parts, chair armrests
Renycle® S GF3503K 3034 BK	35% glass fibre recycled PA6	Chair bases
Renycle® S GF3503K 3035 BK	35% glass fibre recycled PA6	Chair bases
Renycle® S GF2003K 9223 GY	20% glass fibre recycled PA6	Office chair parts

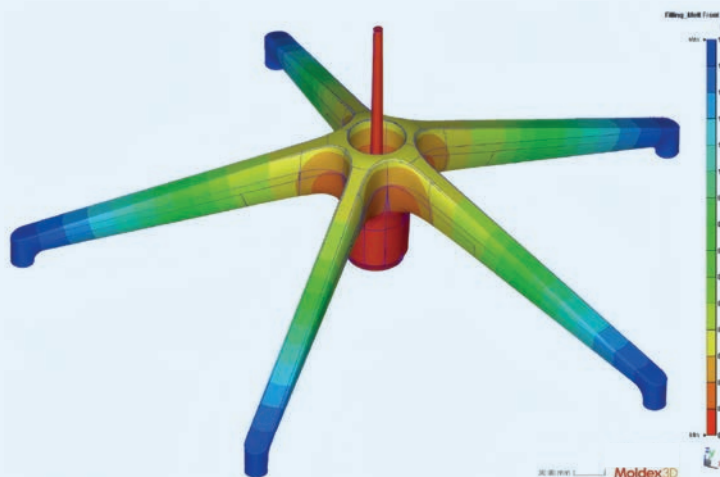


All our grades, both prime and sustainable, can be accompanied by a **Life Cycle Assessment** calculation of the environmental impacts of the product system throughout its whole life cycle (ISO 14040).

**Renycle® S GF3004K 3035 BK** is just one example of several products that exhibit a significant reduction in GWP value compared to the respective prime grade materials.



**RadiciGroup High Performance Polymers Engineering Service** is available to support our customers and strategic partners on demanding projects using our engineering thermoplastics. To provide accuracy and reliability, we use our cutting-edge Computer Aided Engineering (CAE) tools, advanced material modelling and integrated simulation to accurately predict the behaviour of our engineering polymers, as well as their process-induced properties.



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