Consumer Goods: Furniture

HIGH PERFORMANCE POLYMERS

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**.

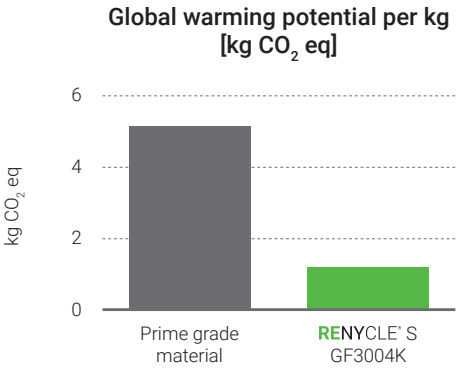
Our **Radilon®** (PA) includes grades suitable for indoor and outdoor use, as well as custom-coloured solutions tailored to our customers' needs. For applications such as motor parts for furniture automation, we propose **Radiflam®** flame-retardant grades. **Radilon® Mixloy** special blends are suitable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

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

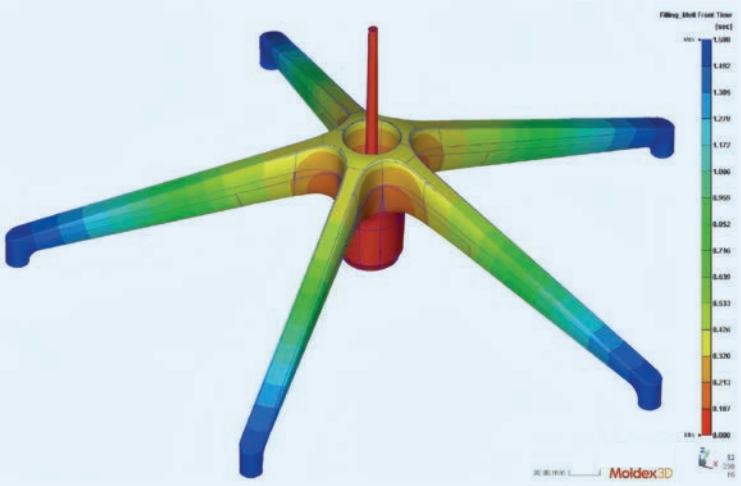


All our grades, both prime and sustainable, can be accompanied by a **Life Cycle Assessment** calculation of the environmental impacts of the product system throughout its whole life cycle (ISO 14040).

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.

engineering service

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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RADICI NOVACIPS SpA (Headquarters) - Via Bedeschi, 20 - IT - 24040 Chignolo d'Isola (BG)