



Mastering the Shift to Recycled Polymers in High-Performance Applications



Integrating recycled materials into plastic parts is an efficient way to reduce carbon footprint. As the range of recycled materials expands to meet market needs, producers of high-performance plastic items still face challenges in implementing suitable products and ensuring a reliable supply.

Common challenges in integrating recycled plastics in High-Performance Applications

1. Identifying the appropriate grade of recycled polymer that meets the application's specific requirements.
2. Ensuring stable and long-term availability.
3. Selecting a partner capable of guaranteeing consistent batch-to-batch quality.
4. Fulfilling criteria for flame retardant applications, long-term thermal performance, and PFAS-free solutions.

A reliable sourcing partner for recycled polymers can reduce the risks and complexities, enabling easier shift to green solutions



Our extensive network of carefully selected recycled polymers allows customers to find reliable fit to the top-notch technical applications

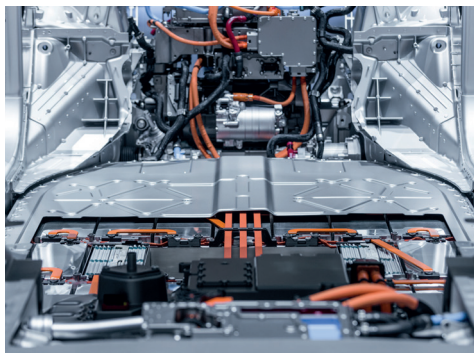
Proper Technical Fit: Our broad range of recycled plastic products meets majority of technical specifications for production of high-performance items.

Secure Supply: Telko screens and cooperates with partners who have secured reliable and consistent supply of recycled feedstocks.

High Technical Quality: Telko partners with producers who carefully select their waste feedstocks (both Post-Industrial Recycle (PIR) and Post-Consumer Recycle (PCR)) to meet stringent technical demands.

Consistent Batch-to-Batch Quality: Our partners assess incoming waste feedstocks in order to secure consistent quality. For example, Melt Flow Index (MFI), Impact Resistance, and Contaminations of waste is checked before recycling.

Simplified Sourcing: The portfolio of recycled products from each producer is constrained by their waste feedstock sources. Over the years, Telko has developed a network of partners to simplify sourcing for our customers and ensure comprehensive product portfolio for high-performance technical parts manufacturers.



Examples of High-Performance Products with Recycled Plastics

Home Charger

- PC/ABS, non-reinforced (material)
- 50% PCR (recycled content/type)
- V0 @ 1,5mm (key property)

Charger Plug

- PC, non-reinforced
- 20% PCR
- RTI 1250C

Busbar Frames and Insulators

- PA6, Flame retardant
- 100% Recycled

Electric Motor

- PA6.6, 25% glass filled, flame retardant – RedPhos, heat stabilized
- 100% Recycled

Guard-Rail Metal Replacement

- PA6, 30% glass filled
- 100% Recycled