



ciclic® 450IMA
Prime-Like rPP
for Technical
Compounding



Prime-Like rPP for Technical Compounding

Product Overview

Ciclic® 450IMA is a **pre-consumer recycled PP homopolymer** designed to deliver prime-comparable performance in technical compounding.

Developed under GCR's advanced mechanical recycling process, it combines **traceable feedstock, antioxidant stabilization**, and a **clean, homogenized** formulation to ensure **consistency, sustainability, and mechanical strength**.

Key Benefits

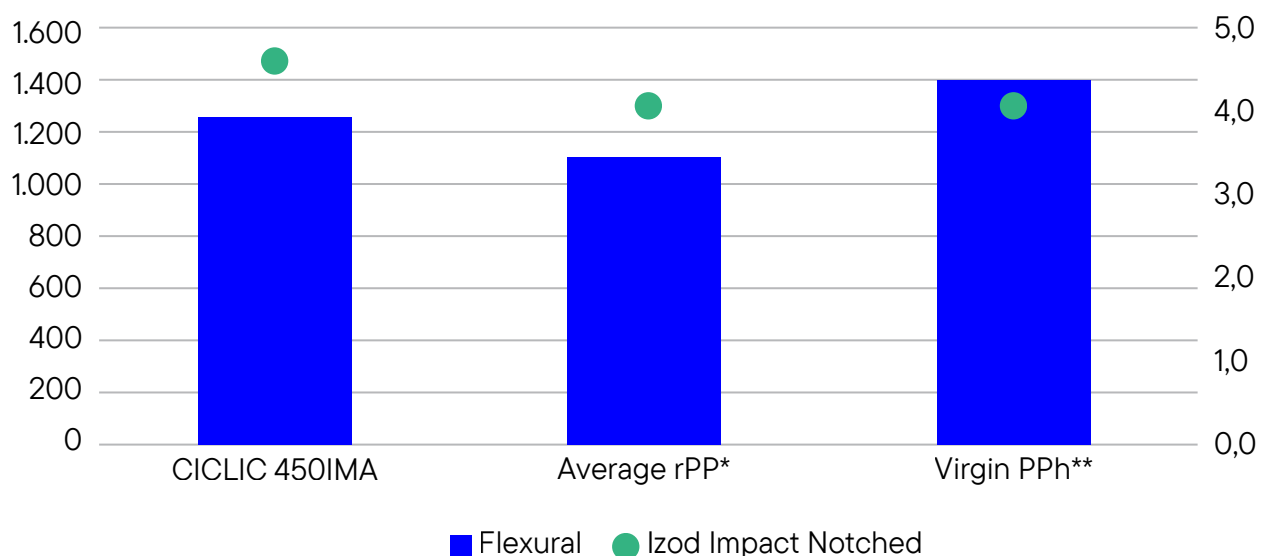
Ciclic 450IMA delivers up to 20% higher stiffness than average rPP with equivalent MFI, while maintaining mechanical performance comparable to virgin PP homopolymer.

Pre-stabilized and clean: antioxidant package and low volatiles reduce degradation during processing and molding.

Reliable batch-to-batch consistency: tight control of MFI, color, and mechanical properties keeps compound recipes stable.

Sustainability-driven: enables reduction of prime resin use while maintaining technical performance.

Performance Data



*Based on GCR's Innovation Hub internal studies.

**Based on commercial Technical Data Sheet.

Discover Ciclic® 450IMA

Typical Applications

For compounders and converters in:

Technical compounding



Base resin for filled or modified PP compounds used in automotive, appliances, and E&E sectors

Industrial packaging



Crates, pallets, rigid containers

Gardening & outdoor goods



Pots, tubs, planters

Certifications & Sustainability

Life Cycle Assessment (LCA) cradle-to-gate performed under ISO 14040 & 14044



CICLIC® 450IMA proves that high-quality recycled PP can meet the mechanical and process performance expected from virgin materials, offering a **consistent, sustainable, and reliable** base resin for compounders.

All data are based on tests conducted by GCR Innovation Hub and are provided for general guidance only. The processor assumes full responsibility for processing conditions, product application, and compliance with any third-party intellectual property rights. CICLIC® has the potential to reduce CO₂ emissions by up to 90% in your product formulations. Actual results may vary depending on the final application, formulation, and specific usage conditions. All statements, technical information, and data presented by GCR PLASTIC SOLUTIONS GROUP S.L.U. (hereinafter, "GCR Group") are believed to be accurate but are provided without guarantee or warranty of any kind. They do not constitute a legally binding representation and should not be relied upon as such.

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GCR Sustainable Plastic Solutions

www.gcrplasticsolutions.com

info@gcrgroup.es

+34 977166950

