



C3000 Performance Enhancement Series Product Guide

The CirKular+™ C3000 Performance Enhancement Series represents a family of block copolymers based on styrene and butadiene brought to market by Kraton Polymers. CirKular+™ products are compatibilizers and performance enhancement additives for upcycling mixed post-consumer (PCR) and post-industrial (PIR) polyolefinic streams suitable for multiple end use applications.

Depending on the target performance requirements and different resins used in the formulation, typical levels of CirKular+ addition range from 3 to 10% weight. CirKular+™ C3000 Performance Enhancement Series is manufactured in Europe and is supplied in a form of a dusted porous pellet.

Property	Test Methods	C3000
Melt Flow Rate (200 °C/5 kg) (g/10 min)	ASTM D 1238	11
Tensile Strength* (MPa)	ASTM D 412	28
Elongation at break* (%)	ASTM D 412	1100
300% Modulus* (MPa)	ASTM D 412	3.8
Hardness Shore A (10 s)**	ASTM D 2240	70
Specific Gravity	ASTM D 792	0.94

* Determined on film cast from toluene solution per ASTM method 412 tensile

** Determined on sample compression molded at 170 to 200°C

These are typical values and should not be used to set specifications.

Versatile End Use, Processing and Functionality

Compounding and Dry Blending
Extrusion, Injection and Blow Molding
Films and Thermoforming

Recommended **Processing Conditions Guide** is available on request and should be reviewed before use.

Potential Applications

Rigid Packaging (Food or Non-food)¹
Flexible Packaging and Films
Automotive
Consumer Products
Industrial
Building and Construction

¹FDA Food Contact status provided upon request

Features & Benefits

End Product Durability and Aesthetics

- Superior mechanical properties: Impact strength at room and low temperature, ductility and toughness
- Flexibility in tailoring properties: Tailored balance between stiffness and impact
- Increased stress crack resistance

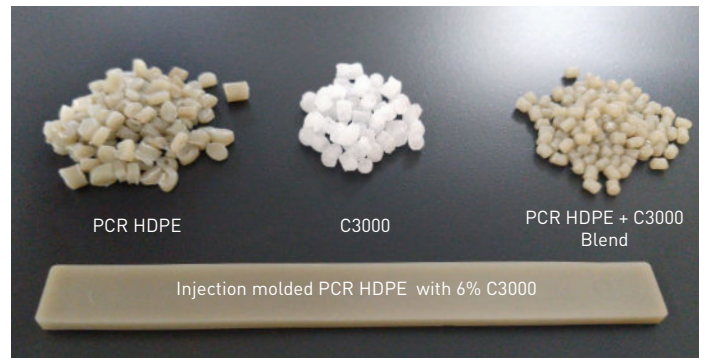
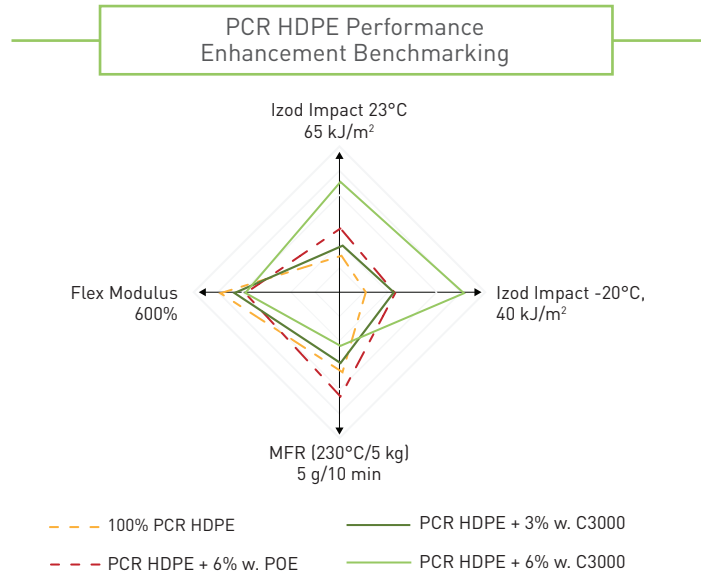
Increased End Product Circularity

- Increased post-consumer and post-industrial content
- Improved product design recyclability
- Positive environmental impact with lower CO₂ and plastic waste reduction

Multi-material Design Flexibility

Multi-resin compatibility across virgin plastics, post-consumer and post-industrial resin waste streams

- Polyolefins and polyolefinic blends: PP, HDPE, MDPE, LLDPE and LDPE, metallocenes
- Polystyrene and high impact polystyrene



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