



C2000 PERFORMANCE ENHANCEMENT SERIES

The CirKular+™ C2000 Performance Enhancement Series represents a family of block copolymers based on styrene and ethylene/butylene brought to market by Kraton Polymers. CirKular+™ products are multi-resin 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+™ C2000 Performance Enhancement Series is manufactured in North America and Taiwan and are supplied in a form of dusted pellets.

Property	Test Methods	C2000
Tensile Strength, MPa ^{1,2}	ASTM D 238	24
300% Modulus, MPa ^{1,2}	ASTM D 412	580
Elongation at Break, % ^{1,2v}	ASTM D 412	724
Hardness (10s), Shore A ³	ASTM D 412	267
Specific Gravity	ASTM D 2240	47
Melt Flow Rate (MFR), g/10 min (230°C/2.16kg)	ASTM D 792	0.90

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
- Multi-layer Film Structures

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

POTENTIAL APPLICATIONS

- 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: High impact strength at room and low temperature
- ▶ Flexibility in tailoring properties: Tailored balance between stiffness and impact
- ▶ Enhanced stress crack resistance

INCREASED END PRODUCT CIRCULARITY

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

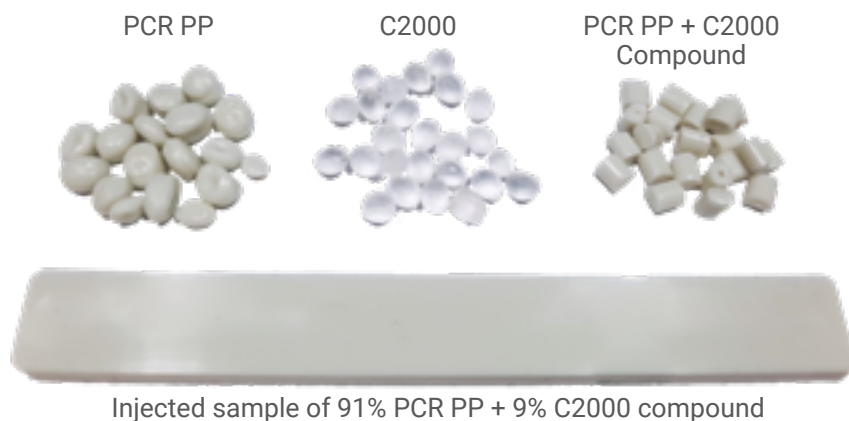
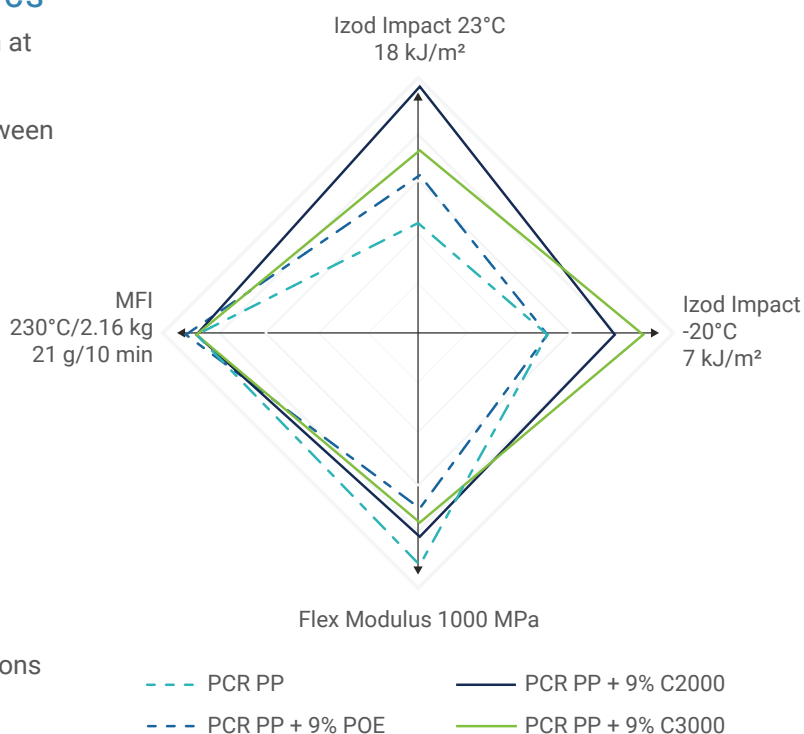
- ▶ Higher post-consumer and post-industrial content
- ▶ Improved product recyclability
- ▶ Lightweighting and downgauging
- ▶ Positive environmental impact with lower CO₂ emissions and plastic waste reduction

MULTI-MATERIAL DESIGN FLEXIBILITY

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

- ▶ Polyolefins and polyolefinic blends: PP, HDPE, MDPE, LLDPE and LDPE, metallocenes
- ▶ Polystyrene and high impact polystyrene
- ▶ Polar resins: EVOH, PVA, EVA
- ▶ Wood plastic composites

PCR PP Performance Enhancement Benchmarking



KRATON CORPORATION

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