



HIGH-PERFORMANCE
Thermoformable Sheets
HIGH content of certified **PIR**



EXTRUDED sheet



THERMOFORMING process

POST-INDUSTRIAL recycled pellet



MP3 *EXTRUSION* IS PLEASED TO
INTRODUCE **NEWCYCLE**, A SERIES OF
HIGH-PERFORMANCE SHEETS FOR
THERMOFORMING WITH **HIGH CONTENT
OF CERTIFIED PIR.**



What we present is a significant advancement in ABS material sustainability. Further extending our comprehensive product range we offer enhanced application versatility through its compatibility for blending or co-extrusion. Leveraging our proprietary post-industrial recycling technologies, NEWCYCLE delivers an **exceptional ABS solution** with a demonstrably lower environmental impact, achieving a **+85% reduction in carbon footprint*** for a medium impact ABS sheet compared to virgin alternatives.

This innovative material upholds stringent performance benchmarks, ensuring **uncompromised quality, aesthetic appeal, and mechanical integrity** for a wide range of applications with the added **flexibility** of combining NEWCYCLE **with PMMA or ASA** to achieve specific performance or aesthetic characteristics.

NEWCYCLE enables organizations to meet evolving sustainability objectives without sacrificing product excellence.

**Carbon footprint of NEWCYCLE ABS as low as 0.161 kg Co2eq/Declare unit 1Kg (formulation 90/10) compared to raw virgin ABS 1.395 kg Co2eq/Declare unit 1Kg.*



WHY NEWCYCLE?

A New Era for ABS Thermoforming

- **Certified PIR**
content from external auditing body
- **Mechanical characteristics of virgin**
grade material
- **Matching aesthetical requirement**
of virgin grade material

- **Repeatable**
thermoforming performance
- **Stability**
of the material over time
- **Exceptional ageing properties**
- **Bottom** layer of the material
in **white** or **black**

KEY FEATURES

Sustainability with Substance

- **Material Composition:**
NEWCYCLE is composed of 99% Post-Industrial Recycled (PIR) ABS.

This material is derived from industrial waste streams, preventing valuable resources from entering landfills and significantly reducing the demand for virgin fossil-based polymers.

- **Advanced Reprocessing Technology:**

Our proprietary reprocessing techniques involve meticulous cleaning and re-compounding of the PIR ABS. This process drastically reduces impurities. Successively the polymer's molecular integrity of the NEWCYCLE ABS is restored through the addition of additives, ensuring that the products from NEWCYCLE range exhibit mechanical and aesthetic properties akin to virgin ABS. This includes maintaining critical attributes such as impact resistance, rigidity, dimensional stability, and surface finish.



99%
RECYCLED
MATERIAL



2
SECONDA
VITA



PERFORMANCE
EQUIVALENT



ADVANCED
TECHNOLOGY



CO₂
REDUCED CARBON
FOOTPRINT

A large number of small, cylindrical plastic pellets in shades of purple, blue, and orange are shown falling from the top left corner of the page. They are scattered across the page, with a dense pile at the bottom left and a trail of pellets falling towards the center. The background is a solid light blue.

- **Certified Traceability and Content:**

NEWCYCLE holds the prestigious **Plastica Seconda Vita (PSV)**

certification. This independent third-party verification, recognized in Italy and beyond, rigorously confirms the identification, the traceability, and the stated percentage of recycled plastic content within our products. The PSV certification specifically validates the use of industrial waste materials, underscoring our commitment to a verifiable circular economy.

- **Performance Equivalence:** Extensive testing confirms that NEWCYCLE **performs comparably to virgin ABS** in key thermoforming applications. Its consistent melt flow, tensile strength and excellent formability enable seamless integration into existing production lines without requiring significant process adjustments.

- **Environmental Impact Reduction:** By utilizing 99% PIR ABS, NEWCYCLE substantially **reduces the carbon footprint associated with polymer production.** This includes decreased energy consumption during manufacturing and a significant reduction in waste generation.

NEWCYCLE enables sustainability without compromise.



NEWCYCLE

isn't just sustainable — it's **strategic**

Explore the key advantages of integrating NEWCYCLE into your value chain

- **Elevated Brand Image:**

Showcase a tangible commitment to sustainability, enhancing your corporate reputation and resonating with environmentally conscious consumers and stakeholders.

- **Resource Efficiency:**

Optimize your resource utilization by integrating high-quality recycled materials, contributing to a more circular and resilient supply chain.

- **Regulatory Alignment:**

Proactively meet and exceed evolving environmental regulations and green procurement criteria, particularly within the European Union.

- **Competitive Differentiation:**

Position your products at the forefront of sustainable innovation, gaining a significant edge in a competitive market.

SAME PERFORMANCE

Smaller Footprint

A side-by-side comparison between virgin
ACRYLAC QX700 and **ACRYLAC NEWCYCLE QX700**

PROPERTY	Test method			ACRYLAC QX700	ACRYLAC NEWCYCLE QX700	Value
	ISO	DIN	ASTM			
SPECIFIC WEIGHT	1183	53479	D-792	1,10	1,10	g/cm3
ELASTIC MODULUS (1MM/MIN)	R-527		D-638	1800	1750	MPa
YIELD STRENGTH (50MM/MIN)	R-527		D-638	37	37	MPa
ULTIMATE TENSILE STRENGTH (50MM/MIN)	R-527		D-638	31	31	MPa
CHARPY +23°C IMPACT SIDE PMMA	179/1fA			23	17	KJ/m2
CHARPY -25°C IMPACT SIDE PMMA	179/1fA			19	15	KJ/m2
CHARPY +23°C IMPACT SIDE ABS	179/1fA			12	12	KJ/m2
CHARPY -25°C IMPACT SIDE ABS	179/1fA			6	4	KJ/m2

CERTIFICATION



Allegato al certificato n° 3307 / 2025 - Prodotti certificati
Annex to certificate of conformity



Articoli <i>Articles</i> BIG BAG ABS RIGRANULATO <i>Pellet di ABS rigranulato nero</i>		Prodotti certificati <i>Certified products</i> MAC RIGR MP5151 <i>VARI</i>		Gamma dei prodotti certificati <i>Range of the certified products</i> VARI NERO		
Totale riciclato <i>Total recycled</i> 0%	Riciclato post-consumo <i>Post-consumer recycled</i> 0%	Riciclato pre-consumo <i>Pre-consumer recycled</i> 0%	Totale sottoprodotto <i>Total by-product</i> 99%	Sottoprodotto interno <i>Internal by-product</i> 0%	Sottoprodotto esterno <i>External by-product</i> 99%	Materiale vergine <i>Virgin material</i> 1%

Articoli <i>Articles</i> BIG BAG ABS RIGRANULATO <i>Pellet di ABS rigranulato bianco misto</i>		Prodotti certificati <i>Certified products</i> MAC RIGR MP5099 <i>VARI</i>		Gamma dei prodotti certificati <i>Range of the certified products</i> VARI BIANCO		
Totale riciclato <i>Total recycled</i> 0%	Riciclato post-consumo <i>Post-consumer recycled</i> 0%	Riciclato pre-consumo <i>Pre-consumer recycled</i> 0%	Totale sottoprodotto <i>Total by-product</i> 99%	Sottoprodotto interno <i>Internal by-product</i> 0%	Sottoprodotto esterno <i>External by-product</i> 99%	Materiale vergine <i>Virgin material</i> 1%

Articoli <i>Articles</i> BIG BAG ABS RIGRANULATO <i>Pellet di ABS rigranulato bianco misto</i>		Prodotti certificati <i>Certified products</i> MAC RIGR MP54 <i>VARI</i>		Gamma dei prodotti certificati <i>Range of the certified products</i> VARI BIANCO		
Totale riciclato <i>Total recycled</i> 0%	Riciclato post-consumo <i>Post-consumer recycled</i> 0%	Riciclato pre-consumo <i>Pre-consumer recycled</i> 0%	Totale sottoprodotto <i>Total by-product</i> 99%	Sottoprodotto interno <i>Internal by-product</i> 0%	Sottoprodotto esterno <i>External by-product</i> 99%	Materiale vergine <i>Virgin material</i> 1%

Prima emissione **14/07/2025**
First issue

Emissione corrente **14/07/2025**
Current issue

Scadenza **13/07/2028**
Expiry

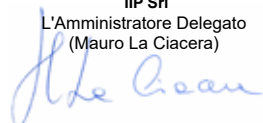


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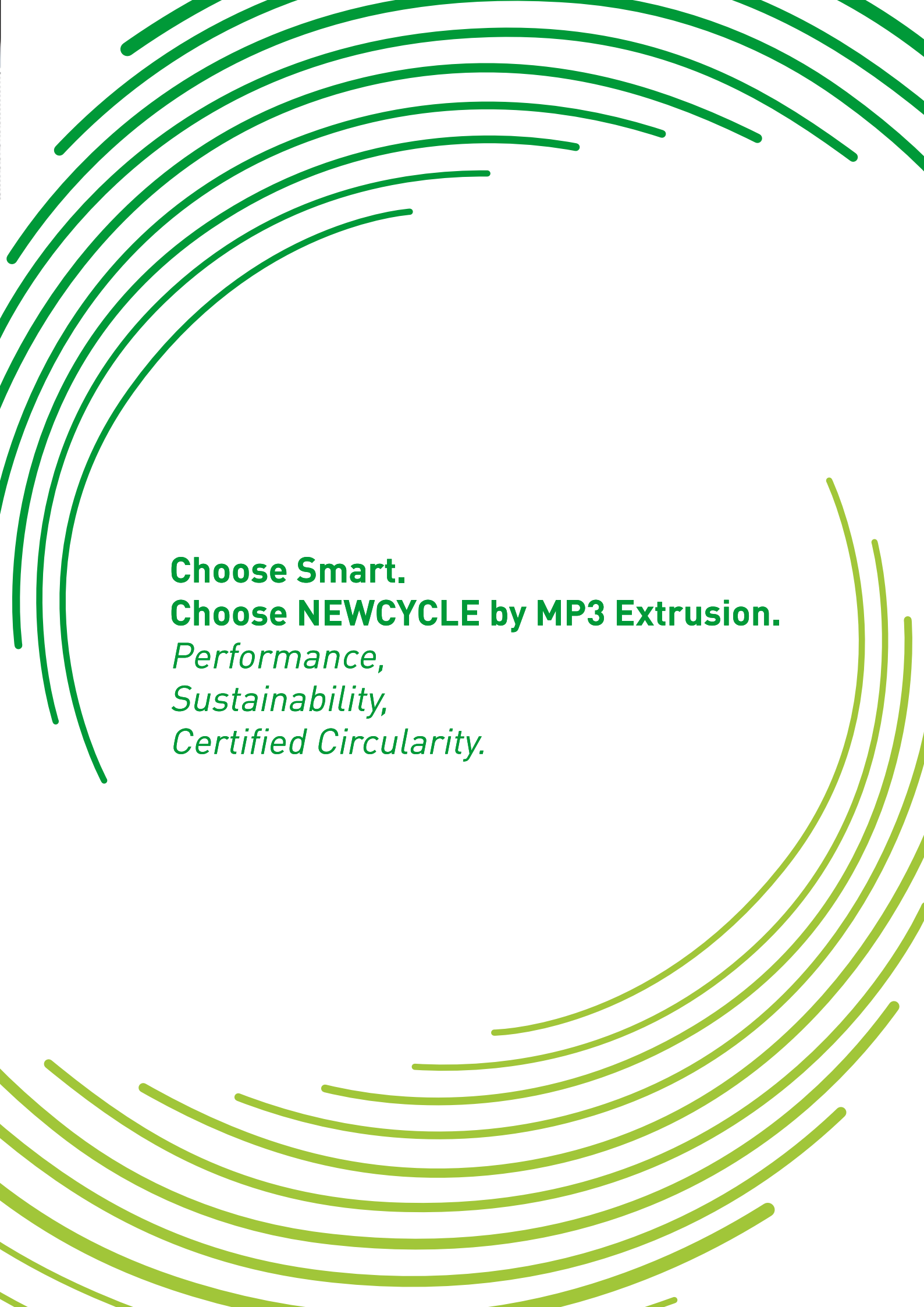


PRD N° 0006PRD
Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC

IIP Srl
L'Amministratore Delegato
(Mauro La Ciamera)



Plastica Seconda Vita è un marchio registrato di proprietà di IPPR - Istituto per la Promozione delle Plastiche da Riciclo
IPPR - Via San Vittore, 36 - 20123 Milano www.iipr.it

The background of the image features several concentric, curved green lines that sweep across the frame from the top left towards the bottom right. These lines vary in length and radius, creating a sense of motion and circularity. The lines are a vibrant green color, matching the text.

Choose Smart.
Choose NEWCYCLE by MP3 Extrusion.
Performance,
Sustainability,
Certified Circularity.



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