

DESIGNED FOR A GREENER TOMORROW

# ArmaForm<sup>®</sup> Foil

The first 100% recyclable thermoplastic foil product entirely made of recycled plastics. ArmaForm Foil is our technical foam solution for thermoforming applications.

[www.armacell-core-foams.com](http://www.armacell-core-foams.com)



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DESIGNED FOR A GREENER TOMORROW

# ArmaForm<sup>®</sup> Foil

Armacell demonstrates again its technical leadership by offering the first fully recyclable and thermoformable foil product, entirely made of recycled PET. Its unique technical properties - superior stiffness and compression combined with temperature and chemical stability - differentiate ArmaForm Foil from any other thermoplastic foil product, while supporting the market's drive for more sustainable product solutions.

## Positive eco-balance

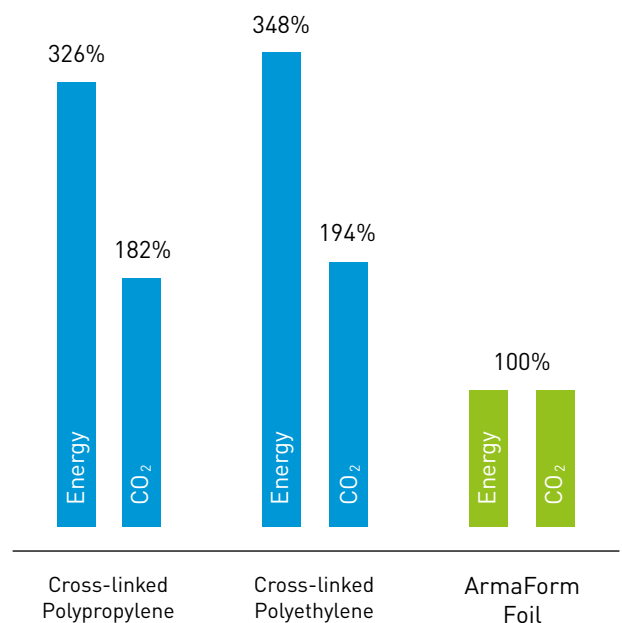
At Armacell we constantly innovate, improve and rethink our processes, and are focused on sustainable, profitable growth through the development and manufacturing of our products to ensure a positive impact on our global community.

- // Armacell produces consistent foam qualities from 100% recycled post-consumer PET.
- // All our products are manufactured in an energy- and resource-efficient production process.
- // Production scrap is returned to the process and re-used for foam manufacturing to reduce waste.
- // We are proud to have used more than one billion PET bottles in our production.

## Closing the loop

Armacell is the pioneer in the field of polyethylene terephthalate (PET) technology and initiated the breakthrough of PET foams as a structural core material in the composite industry. In the early days, our PET foams were made from virgin PET. Over the past decade, our global research and development team developed a process technology enabling the production of PET foam products made entirely from recycled beverage bottles. We have used more than 1,000,000,000 (1 billion) recycled plastic bottles in our PET foam core production.

## Significantly reduced CO<sub>2</sub> emission and energy consumption



# TECHNICAL DATA (preliminary)

Values are indicative and can vary depending on actual dimensions and surface weight.

			Foil 100	Foil 150	Foil 200	Foil 300
<b>Density</b> <sup>(1)</sup>	<b>nominal</b>	kg/m <sup>3</sup>	100	150	200	300
		lb/ft <sup>3</sup>	6.2	9.4	12.5	18.7
<b>Surface Weight</b>	<b>nominal</b>	g/m <sup>2</sup>	300	375	500	450
		oz/yd <sup>2</sup>	8.8	11.1	14.7	13.3
<b>Normal Thickness</b>	<b>nominal</b>	mm	3	2.5	2.5	1.5
		in	0.12	0.1	0.1	0.06
<b>Tensile Strength (MD)</b> <sup>(2)</sup>	<b>ISO 527-3</b>	MPa	2,2	3,3	4,5	8
		psi	319.1	478.5	652.5	1160
<b>Tear Strength (MD)</b> <sup>(2)</sup>	<b>PSA D41 1126</b>	N	30	30	tbd	30
		lbs	6.7	6.7	tbd	6.7
<b>Compression Strength</b>	<b>ISO 844</b> at 25% deformation	kPa	170	300	420	650
		psi	24.7	43.5	60.9	94.3
<b>Compression Strength</b>	<b>ISO 844</b> at 50% deformation	kPa	310	650	1000	1800
		psi	44.9	94.3	145	261
<b>Operating Temperature</b>	<b>min / max</b>	°C	-40 /+180	-40 /+180	-40 /+180	-40 /+180
		°F	-38 /+356	-38 /+356	-38 /+356	-38 /+356
<b>Fire Testing</b>	Possible to fulfil FMVSS 302. Customised formulations available on request.					

(1) Results based on defined surface weight and thickness

(2) Machine direction

## Packaging

Available per roll or sheets.

Width: 1.080 mm, 1.330 mm and 1.580 mm / 42.52 inch, 52.36 inch, and 62.20 inch

Customised solutions available per project basis.

## Primary Benefits

- // **Broad operating temperature window**  
From -40°C to +180°C / -38°F to +356°F
- // **Smooth surface structure**
- // **Improved stiffness & compression**
- // **Fire resistance: Possible to fulfil FMVSS 302**  
Customised formulations are available on request.
- // **Fine cell structure for easy processing**
- // **Very good chemical and oil resistance**
- // **Positive eco-balance:**  
Made from recycled PET bottles  
Fully recyclable after use  
CO<sub>2</sub> emission and energy consumption savings



All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. By ordering/receiving product you accept the Armacell General Terms and Conditions of Sale applicable in the region. Please request a copy if you have not received these.

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## ABOUT ARMACELL

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As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,100 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more information, please visit:  
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