A clear glass teapot is tilted, pouring a stream of amber-colored tea into a matching glass teacup. The teacup sits on a glass saucer. The tea is filled with numerous small, dark bubbles, giving it a sparkling appearance. The background is a solid, vibrant orange color. The text is overlaid on the left side of the image.

**New Co-Polyester with
sparkling transparency
and high heat resistance**

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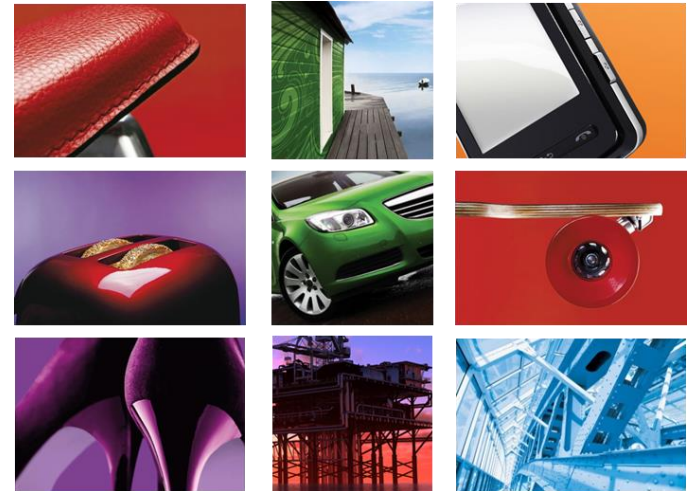
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About Perstorp

- ➔ World leader in several sectors of the specialty chemicals market
- ➔ Pioneer in formalin chemistry, plastics and surface materials
- ➔ Perstorp was formed in 1881, over 130 years of winning formulas
- ➔ Annual turnover of 1,2 billion EUR
- ➔ 1 400 employees in 22 countries
- ➔ Production plants in Europe, Asia and North America
- ➔ Headquarter in Malmö in Sweden



Introducing Akestra™



Synergies in
a joint launch
of Akestra™

Akestra™ is
produced by MGC
and brought to
Europe by Perstorp

Intention to scale
up production
in Europe

Introducing Akestra™

- Sparkling and glass like
- Heat resistant
- Utilizing existing PET production line
- Sustainable
- Safe
- Appealing

Application areas



Thin wall



Hot fill, rigid



Durable transparent



High barrier film



Foams



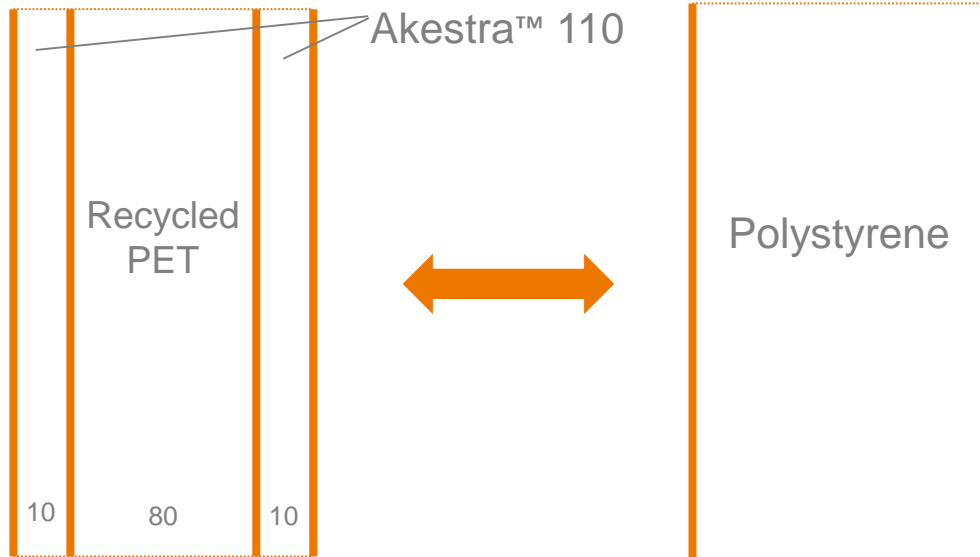
Additive for other polyesters

Akestra™ Properties

		Akestra™ 90	Akestra™ 100	Akestra™ 110	PET	PETG
Tg	°C	95	100	110	82	83
HDT (0,45 Mpa)	°C	81	86	96	70	70
Total transmittance	%	91	91	91	91	91
Haze (3,2 mm)	%	1	1	1	5	1
Density	g/cm3	1,28	1,27	1,24	1,34	1,27
Tensile strength	Mpa	54	55	56	50	50
Flexural strength	MPa	89	90	90	80	70
Flexural modulus	GPa	2,5	2,5	2,5	2,2	2,1
Elongation at Break	%	220	200	140	200	130
OTR (23°C, 60% RH)	cc · mm/m ² /day/atm	6	8,7	9,3	3,3	-
WVTR (40°C, 90% RH)	g · mm/m ² /day	4	3,8	4,5	-	-

- Superior heat resistance to PS
- PC and PMMA transparency
- PC rigidity
- Superior impact resistance to PS
- PET barrier properties
- PET-G chemical resistance

Co-extrusion



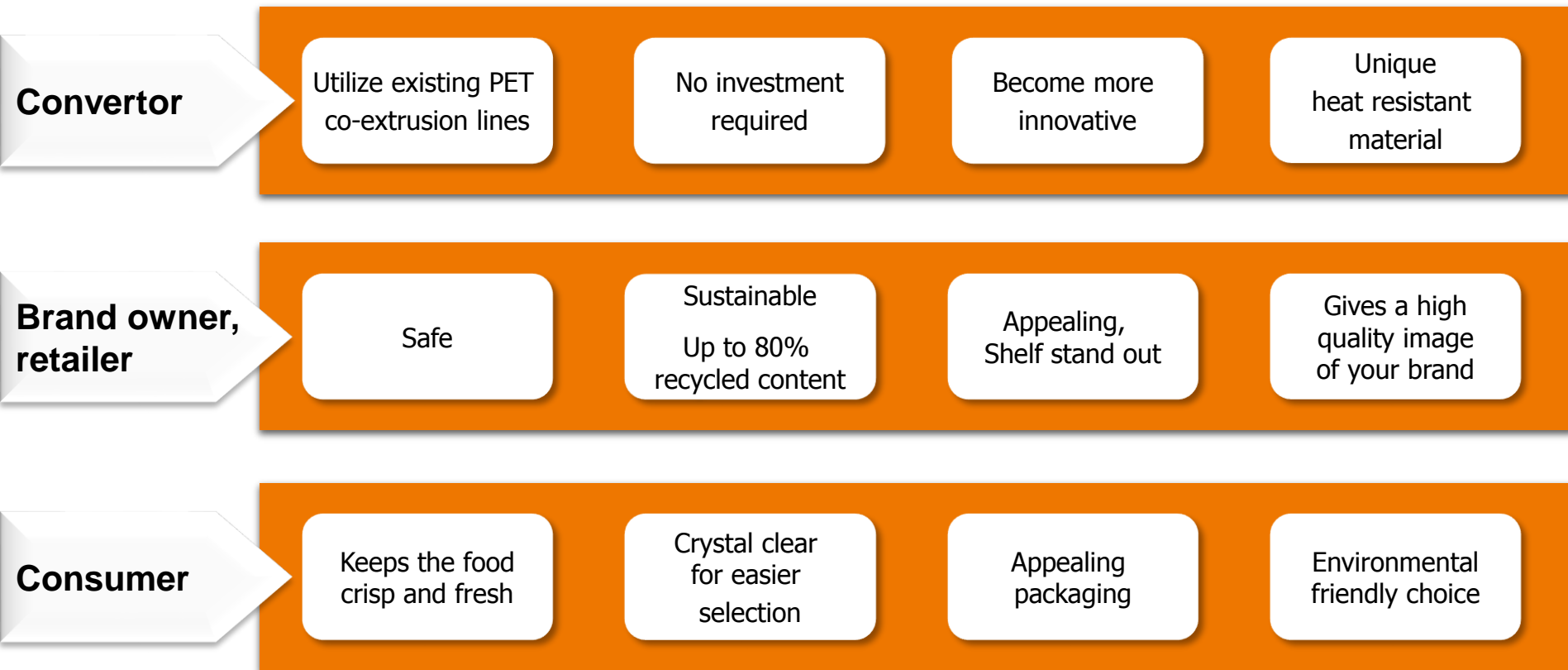
**For superior performance
&
Improved sustainability**

Transparent and
heat resistance to
80-85°C

Utilizing existing
PET production
line

Akestra™

Clearly the way ahead in heat resistant packaging



Processing of Akestra™

Akestra™ suitability

- Co-Extrusion
- Cast sheet extrusion
- Injection molding
- Blown film extrusion
- Extrusion blow molding
- Injection stretch blow molding

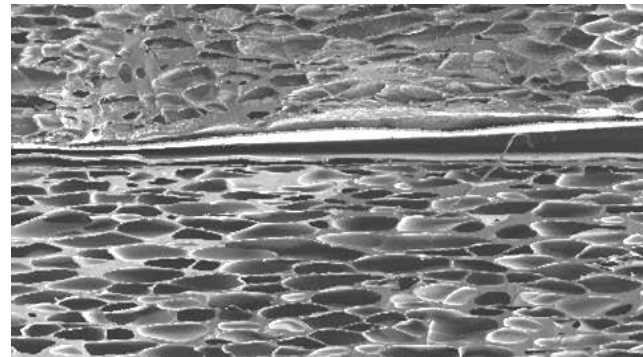
Processing Akestra™

- Cost effective
- Sustainable
- Innovative
- Easy



Akestra™ in foamed sheets

- ➔ Akestra™ adds excellent melt strength to PET foam
- ➔ Increasing number of closed cells
- ➔ Lighter foam with maintained mechanical properties
- ➔ Finer cells enhancing the visual appeal



PET foam sheet



Blend Akestra™ 110, 30%



Akestra™

Clearly the way ahead in heat resistant packaging

Winning properties

- Sparkling transparency
- Appealing packaging
- High heat resistance
- Safe

Formed to Perform

- Diverse and easy processing
- Use existing PET production lines
- Co-extrusion with PET

A clear winner

- Brand security
- Shelf stand out
- Premium feel
- Sustainable





**Contact us
for further
information**

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