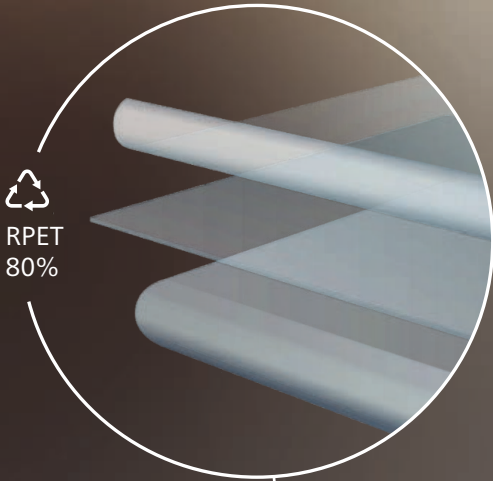


# Akestra<sup>TM</sup>

Upgrading recycled PET  
with irresistible resistance



# Set for a sparkling and hot future

- Glass like new polyester with sparkling transparency
- High heat resistance up to 100°C
- Safe and approved for food contact use
- Suitable for films, sheets, foams, injection- and blow moulding
- Can be processed in standard equipment for PET



Safe and approved for food contact use in accordance with:



JHOSPA



## Sparkling alternative to polycarbonate, polystyrene & glass

Akestra™ is a remarkable plastic with a sparkling glass-like appearance that is sure to enhance both disposable and reusable packaging. It can be used as a polystyrene alternative for heat resistant thin wall containers, a polycarbonate alternative for durable “dishwasher proof” transparent products, and a glass alternative for hot-fill food containers.

The high glass transition temperature, combined with its amorphous and high strength properties make it a superior alternative in food packaging.

Akestra is also a material that can easily be combined with other plastics to improve their properties too.

## Winning properties – clarity, heat resistance & approved for food contact



Makes your products easy to clean and even dishwasher safe.



Transparency and heat resistance in one high-end product.



Alternative to polycarbonate and polystyrene in sensitive applications

		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/cm <sup>3</sup>	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

# One molecule can change everything

Perstorp believes in improving everyday life – making it safer, more convenient and more environmentally sound for billions of people all over the world. As a world leading specialty chemicals company, our innovations provide essential properties for products used every day and everywhere. You'll find us all the way from your car and mobile phone to towering wind turbines and the local dairy farm. Simply put, we work to make good products even better, with a clear sustainability agenda.

Founded in Sweden in 1881, Perstorp's focused innovation builds on more than 135 years of experience, representing a complete chain of solutions in organic chemistry, process technology and application development. Manufacturing is based in Asia, Europe and North America, with sales and support in all major markets. The Perstorp Group is controlled by funds managed and advised by the European private equity company PAI partners.

For more information, visit [perstorp.com](http://perstorp.com)