

Akestra™ 90

Heat resistant plastic

Product Description

Akestra™ 90 is an amorphous copolyester with sparkling glass-like clarity. It has outstanding features in heat resistance, chemical resistance and hydrolytic stability.

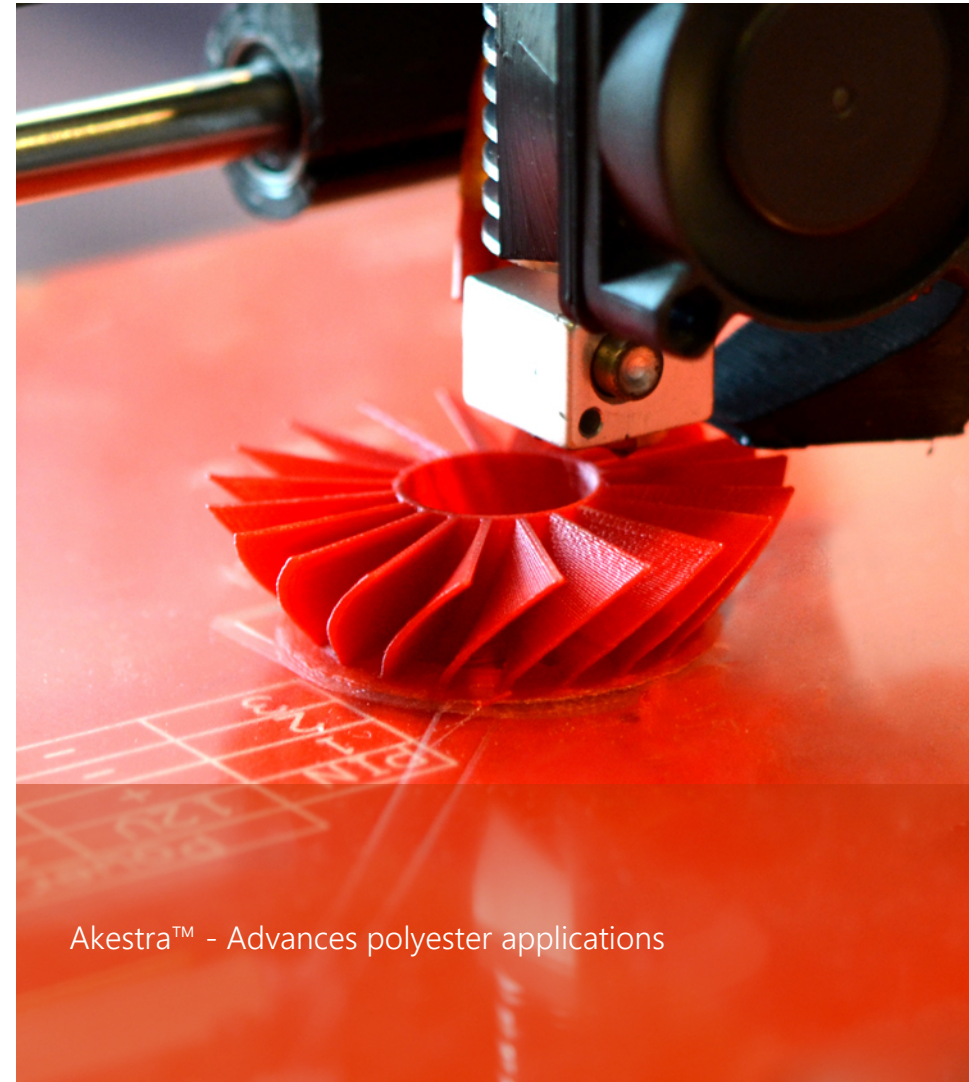
The Akestra™ copolyesters have excellent processing properties, is easy to process in standard PET equipment and can be used in most polymer processes like, extrusion casting and coating, and injection molding. The high melt strength of Akestra enables good processability also in film blowing and extrusion blow molding. The combination of high melt strength and a broad processing window makes Akestra™ 90 an excellent carrier in master batches for polyesters since it is fully miscible with PET and PETG giving full transparency in all concentrations. Akestra™ may be used in food contact application and complies both with FDA and EU regulations for direct food contact.

Segment Applications

Carrier for masterbatch, Food packaging containers, blow molding, sheets and films as well as in durables injection molding articles.

Delivery Forms

20 kg bags and 1000kg Big Bags.



Akestra™ - Advances polyester applications

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General Characteristics

Characteristics	Unit	Typical Value ¹	Analytical methods
Specific gravity	g/cm ³	1.28	ASTM D792
Intrinsic Viscosity IV	dl/g	0.64	PO 120-6 ²
Glass transition temperature T _g	°C	95	ASTM D7426
HDT @ 0.455MPa	°C	81	ASTM D648
Total Transmittance	%	91	ASTM D1003
Haze	%	1	ASTM D1003
Flexural Yield Strength	MPa	89	ASTM D790
Flexural Modulus	GPa	2.5	ASTM D790
Elongation at break	%	220	ASTM D638
Izod impact strength, notched	J/m	25	ASTM D256

1. Typical values are for information only and not part of sales specification

2. Analytical method available on request

Compliance and regulations

Akestra™ and/or its monomers are approved as food contact material in Europe (EFSA) and USA (FDA). Akestra™ complies with RoHS. All raw materials are REACH registered. A document of compliance is available on request with details about its regulatory and compliances.

General Processing recommendations

Desiccant dryer and/or extrusion equipment

Drying Time: 9-12 hours

Max. Drying Temp.: 75 °C

Dew point: < -29 °C

Processing melt temp. 220-270°C

Mold Temperature. 20-60°C

More information are available on request, TI-1800 and TI-1801

Handling and Storage

Akestra™ is hygroscopic and should be handled to prevent moisture absorption.

Keep in closed or covered containers when not in use

Store in cool dry place

Effective date: September 15, 2020

USERS ARE ADVISED TO MAKE THEIR OWN INDEPENDENT DETERMINATION OF THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE. EXCEPT FOR WHAT IS STATED IN PERSTORP'S GENERAL CONDITIONS OF SALE OR SEPARATELY IN A WRITTEN CONTRACT WITH PERSTORP, NO INFORMATION PROVIDED IN THIS DATA SHEET CONSTITUTES A WARRANTY (EXPRESS OR IMPLIED) BY PERSTORP, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.