



SELENIS AKOLYT KM 900

Selenis Akolyt KM 900 copolyester has been specifically developed for the extrusion of technical films for furniture lamination, graphics arts, and the card film industry.

Films made from **Selenis Akolyt KM 900** allow excellent decorative capability, permitting your customers unlimited design freedom and full personalisation of the final application. With the **Selenis Akolyt KM 900** grade you can choose a variety of finishes to your films, such as embossing techniques and glossy or leather-like surfaces. The exceptional clarity of films produced from **Selenis Akolyt KM 900** allow reverse printing technique, enhancing printing optics whilst maximizing artwork protection.

Elongation of films produced from **Selenis Akolyt KM 900** permit thermoformed deep drawing, at the same time as its relatively low Tg grants energy cost savings while guaranteeing perfect adhesion to the substrates.

Proven chemical resistance against common household detergents makes **Selenis Akolyt KM 900** the perfect choice for films that will resist everyday weathering.

Specifications

This table contains Selenis **Akolyt KM 900** characteristics and their methods of analysis. Some properties are subject to limits; others are presented with their typical values. Small variations of the typical values do not affect the application performance of the polymer.

All properties are measured under laboratory conditions by the analytical method shown. Limits in these specifications are applicable only to data obtained by the referenced test methods. Different methods or conditions of analysis may give rise to different values. A Certificate of Analysis, with representative average values of certain properties, can be sent to the customer when requested.



Typical Properties

Properties	Test Methods	Units	Values
Intrinsic Viscosity	ISO 1628-5	dl/g	0.76 ± 0.02
Color b* L*	ASTM D6290		≤ 1 ≥ 64
Glass Transition Temperature	ASTM D3418	°C	80 - 85
Bulk Density		g/cm ³	0.73
Specific Density	ASTM D -792 (2013)	g/cm ³	1.27
Moisture		%	≤ 0.3
Particle size		mg/20 chips	320 ± 50
Pellet Shape			Cylindrical
Food Approval			YES

This resin complies with the compositional requirements of the European Regulation Nr 10/2011 on Plastic Food Contact Materials and its amendments, and FDA 21CFR 177.1315, part (b) 1.





Storage and Handling Conditions

Selenis Akolyt KM 900 is an inert material in storage and no hazards are likely to arise; however the polymer should be stored in an area properly protected from risk of fire.

Selenis Akolyt KM 900 should be stored in the original container, tightly closed in a dry, cool and well-ventilated place. Avoid direct light contact if the container is stored indoors.

Processing

In order to obtain maximum product performance, **Selenis Akolyt KM 900** should be dried to achieve a moisture level below 0.004 % (40 ppm) before processing. Typical drying requirements include a dehumidifying air hopper dryer with regenerative desiccant beds, -40°C dew point air, and drying temperature between $60 - 65^{\circ}$ C for at least 6 - 8 hours. During drying it is important that the temperature of the processed air does not exceed 70°C in order to avoid chips sticking together in the hopper of the dryer.

Typical processing temperatures are between 180°C to 250°C and should be chosen in function of the needs of the transformation technology.

Warranty

The seller only warrants that the product complies with the specifications and is free from defects. Clients should perform their own assessment to determine if the product is suitable for a particular purpose.

Health and Safety Consideration

Read and follow all information presented in the Safety Data Sheet (SDS) for this product.

Recycling

Polyethylene Terephthalate Products are 100% recyclable. Production rejections, and/or conversion waste should be recycled if possible.

Selenis Portugal Quinta de São Vicente, E.N. 246

7300-436 Ribeira de Nisa Portalegre, Portugal

For customer support, literature assistance, call: +351 932022754



www.selenis.com