



Specialty Polyesters Solutions

## SELENIS CHILIAD SP 550

**Selenis Chiliad SP 550** copolyester has been specifically developed for the extrusion of profiles, such as price-tag moldings, machine rail guides, decorative edge trims and tubing.

**Selenis Chiliad SP 550** is easy to extrude and allows the production of extremely accurate shapes, even at low thicknesses. Profiles produced from **Selenis Chiliad SP 550** copolyester may be cold-bent, machined, drilled, sawed like wood and may be easily decorated. **Selenis Chiliad SP 550** grade is VCM and styrene free.

### Specifications

This table contains **Selenis Chiliad SP 550** 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.



Specialty Polyesters Solutions

## Typical Properties

Properties	Test Methods	Units	Values
<b>Intrinsic Viscosity</b>	ISO 1628-5	dl/g	0.72 ± 0.02
<b>Color</b> b*	ASTM D6290		≤ 1
L*			≥ 64
<b>Glass Transition Temperature</b>	ASTM D3418	°C	80
<b>Bulk Density</b>		g/cm <sup>3</sup>	0.73
<b>Specific Density</b>	ASTM D -792 (2013)	g/cm <sup>3</sup>	> 1.29
<b>Moisture</b>		%	≤ 0.3
<b>Particle size</b>		mg/20 chips	320 ± 50
<b>Pellet Shape</b>			Cylindrical
<b>Food Approval</b>			YES

This resin complies with the compositional requirements of the European Regulation Nr 10/2011 on Plastic Food Contact Materials (Repeals 2002/72/EC plastics including 6 amendments).



Specialty Polyesters Solutions

## Storage and Handling Conditions

**Selenis Chiliad SP 550** 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 Chiliad SP 550** 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 Chiliad SP 550** 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 65°C drying temperature for at least 5 – 6 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% recycled and carries the recycle code of "1". 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 245339240

[www.selenis.com](http://www.selenis.com)