

SELENIS GENIUS 251

Selenis Genius 251 copolyester has been specifically developed for extrusion blow moulding process of bottles of any shape. **Selenis Genius 251** offers exceptional clarity, neutral colour and high gloss, granting enhanced shelf appeal whilst protecting product ingredients.

Selenis Genius 251 grade offers excellent impact resistance; therefore it is recommended for the production of bottles with a volume up to 1000-ml.

Selenis Genius 251 grade may be easily processed on standard extrusion blow moulding machines, provided appropriate drying equipment is used.

Selenis Genius 251 offers good chemical resistance to most common additives used in the cosmetics and personal care industries; it is up to the end user to determine the fitness for use.

Specifications

This table contains **Selenis Genius 251** 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
Intrinsic Viscosity	ISO 1628-5	dl/g	0.78 ± 0.02
Color b*	ASTM D6290		≤ 3
L*			≥ 64
Glass Transition Temperature	ASTM D3418	°C	85
Bulk Density	ASTM D -792 (2013)	g/cm ³	0.73
Specific Density		g/cm ³	1.27
Moisture		%	≤ 0.3
Particle size		mg/20 chips	350 ± 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 21 CFR 177.1315 2015 part (b)1 and (C).

Storage and Handling Conditions

Selenis Genius 251 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 Genius 251 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 Genius 251** 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.

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