

SELENIS VENUZ BD 187

Selenis Venuz BD 187 has been specifically developed for the cosmetics market where outstanding clarity, great performance and easy processing is the target.

Cosmetic parts moulded from **Selenis Venuz BD 187** provide good chemical resistance to most ingredients used in the industry as well as good barrier properties, helping brand owners grant product safety and preservation during storage. Packaging cost may be reduced as shelf life can be maintained even without the use of additional PP-inserts as usual in SAN and PMMA thick wall jars.

The clarity of **Selenis Venuz BD 187** allows packaging engineers to design parts from thin to thick walls without sacrificing transparency. The combination of density and thick walls increases the weight of the package, reinforcing the consumer perception of a high-end quality product.

You can count on **Selenis Venuz BD 187** for the protection of your product.

Selenis Venuz BD 187 provides good impact resistance, resembling the appearance of glass, allowing you to create unique and personalized designs.

Selenis Venuz BD 187 copolyester is the ideal choice for thin wall injection moulding applications. Due to the high flow characteristics of this material short cycle times improve efficiency and lower cost per part. For packaging containers, a minimum wall thickness of 0,6 mm can be targeted using **Selenis Venuz BD 187**.

Selenis Venuz BD 187 is a ready-to-use product supplied with a demoulding agent to ease your process.

Specifications

This table contains **Selenis Venuz BD 187** 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 ^a	Test Methods	Units	Values
General Properties			
Intrinsic Viscosity	ISO 1628-5	dl/g	0.65 ± 0.02
Color b* L*	ASTM D6290		≤ 1 ≥ 68
Bulk Density		g/cm ³	0.73
Specific Density	ASTM D -792	g/cm ³	1.27
Water Absorption	ASTM D570	%	≤ 0.12
Mould Shrinkage	ASTM D 955	%	0.2 – 0.5
Particle size		mg/20 chips	320 ± 50
Pellet Shape			Cylindrical
Mechanical Properties			
Tensile Properties	ISO 527 -1/- 2		
Yield Stress (σ _y)		MPa	47
Elongation at Yield (ε _y)		%	4.3
Strength (σ _m)		MPa	47
Elongation at Strength (ε _m)		%	4.3
Nominal elongation at Break (ε _{tb})		%	58
Tensile Modulus	ISO 527 -1/- 2	MPa	1952
Flexural Properties	ISO 178		
Flexural Modulus		MPa	1894
Flexural Strength		MPa	60
Charpy Impact Resistance			
Notched 23°C; 50 %RH 0°C -30°C	ISO 179-1/1eA	KJ/m ² KJ/m ² KJ/m ²	5.7 4.9 4.8
Unnotched 23°C; 50 %RH 0°C -30°C	ISO 179-1/1eU	KJ/m ² KJ/m ² KJ/m ²	Not Break Not Break Not Break
Thermal Properties			
Glass Transition Temperature	ASTM D3418	°C	80 -85
Optical Properties			
Gloss (GU)	ASTM D2457/60°		164
Haze, 2mm	ASTM D1003	%	<1
Yellowness Index, 2mm	ASTM (E313-73)	%	<1
^a The properties reported are obtained into the polymer without demoulding agent			

Storage and Handling Conditions

Selenis Venuz BD 187 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 Venuz BD 187 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 Venuz BD 187** 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 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.

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