

Technical Data Sheet

Selenis Selekt BD 110

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Description

Selenis Selekt BD 110 is a copolyester that is suitable for injection moulding applications. From thin wall and intricate parts to thicker cross-sections where toughness is required.

Injection moulded parts made from this resin are water-clear and glossy, whilst tough and durable. Thanks to **Selenis Selekt BD 110** high dimensional stability, multiple parts products may be assembled with snap-fit connectors, maintaining the strength required to sustain daily wear and tear.

This product is the ideal solution when eye-catching graphics are required, as multiple decorative techniques may be successfully used.

Specifications

This table contains **Selenis Selekt BD 110** characteristics and analysis methods. 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 for certain properties, can be sent to the customer when requested.

Typical Properties

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

Storage and Handling Conditions

Selenis Selekt BD 110 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 Selekt BD 110 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 Selekt BD 110** 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 60°C – 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 on 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.