



Specialty Polyesters Solutions

SELENIS BONDZ GG 074

Selenis Bondz GG 074 is a copolyester specifically designed for sealing layers in GAG coextruded films. Selenis has developed this bonding solution to consistently deliver excellent melt strength and exceptional heat-sealing performance. This product is formulated to provide and sustain the adhesion level crucial to the packaging integrity through the different processes of manufacturing, from coextrusion to thermoforming, securing full protection of the final product.

Selenis Bondz GG 074 greatly improves your film, providing enhanced printability, effortless cutability and easier thermoformability; hence boosting your energy efficiency.

Selenis Bondz GG 074 may be used as a primary or secondary packaging material for thermoformed trays, blister applications, and form-fill-seal applications up to 75°C.

Selenis Bondz GG 074 guarantees no crystalline haze; thereby assuring your film will be crystal-clear. This solution ensures exceptional adhesion level, while maintaining high clarity and gloss, certifying optimal visual appeal at point of sale.

Specifications

This table contains **Selenis Bondz GG 074** 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.



Selenis

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Typical Properties

Properties	Test Methods	Units	Values
Intrinsic Viscosity	ISO 1628-5	dl/g	0.80 ± 0.02
Color b*	ASTM D6290		≤ 1
L*			≥ 64
Glass Transition Temperature	ASTM D3418	°C	80
Bulk Density		g/cm ³	0.73
Specific Density	ASTM D -792 (2013)	g/cm ³	1.29
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.



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Requirements for Delivery the Product in Bulk – Silo Truck (Load/Unloading)

All the Loading/Unloading of the Silo truck should have the following elements:

- Compressor with 5 μ air filter;
- Air Cooling system at compressor outlet;
- Pressure control systems for loading/unloading, with pressure gauge; Loading/unloading should be carried out with a maximum air pressure of 0,8bar and minimum air flow to prevent excess of friction between chips and inner pipe wall;
- Thermometer to check the air temperature, which should never be higher than 60°C;
- Rubber pipe connection in good condition, adapted to a fixed pipe with appropriated inner diameter for the purpose;

All internal pneumatic conveying systems between storage silos and consumption shall be optimized to reduce flow speed to minimum (preferable dense-phase conveying systems) and only have installed extra long radius pipe elbows.

Storage and Handling Conditions

Selenis Bondz GG 074 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 Bondz GG 074 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 Bondz GG 074** 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 a drying temperature between 60 – 65°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.



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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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