



Specialty Polyesters Solutions

SELENIS ECO INFINITE S82

Selenis ECO INFINITE S82 is a PET copolymer resin, suitable for stretch blow moulding in one or two stages and extrusion processes, with post-consumer RPET, a packaging solution that will fit the expectation of brand owners looking to maximise sustainability. **Selenis ECO INFINITE S82** incorporates a standard 30% PCR content, with the possibility of reaching 50%, upon specific request. The percentage of PCR is mentioned in the product name, using the letter R plus the % of PCR content in the product.

Selenis ECO INFINITE S82 is the answer for those looking to maintain packaging aesthetics and complete functionality of processing, whilst providing a more eco-friendly alternative. Selenis quality inspection practices allow us to control the physical properties and consistently provide the deliverables required by customers.

Selenis ECO INFINITE S82 is especially recommended for general applications, which the main requirements are the balance of optical and mechanical properties. It is particularly suitable for bottles, film applications and general-purpose packages.

Specifications

This table contains **Selenis ECO INFINITE S82** characteristics and their methods of analysis. Some properties are subjected to limits; others are presented with their typical values. Small variations of the typical values do not affect the application performances 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. Purchased material will be accompanied by a Certificate of Analysis, with representative average values of certain properties.

Properties	Test Methods	Units	Values
Intrinsic Viscosity	ISO 1628-5	dl/g	0.82 ± 0.02
Color b* L*	ASTM D6290		≤ 5 ≥ 68
Acetaldehyde	ASTM F2013	ppm	≤ 1
Melting Point	ASTM D3418	°C	255 max
Crystallinity	ASTM D1505	%	≥ 50
Moisture		%	≤ 0.2
Particle size		mg/20 chips	320 ± 50
Pellet Shape			Cylindrical



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Storage and Handling Conditions

Selenis ECO INFINITE S82 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 ECO INFINITE S82 should be stored in the original container, tightly closed in a dry, cool and in a well-ventilated place. Avoid direct light contact if the container is stored indoors.

Processing

In order to obtain maximum product performance, **Selenis ECO INFINITE S82** should be dried to achieve a moisture level below 0.004 % (40 ppm), or preferably about 30 ppm, before melting. Typical drying requirements are a dehumidifying air hopper dryer with regenerative desiccant beds, -40°C dew point air, 175°C drying temperature, not less than 4 hours of residence time.

Typical melt temperatures are between 270 – 280°C, chosen in function of the needs of the transformation technology. Mold Temperatures between 10 – 20°C, depending on cycle time and parts weight.

Warranty

The seller only warrants that the product complies with the specifications and is free from defects. The client should perform its 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 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 932022754

www.selenis.com