



Specialty Polyesters Solutions

SELENIS MIMESIS DP 300

Selenis Mimesis DP 300 is a copolyester specifically developed for 3D printing applications where easy processing and high toughness are crucial. The self-bonding ability of **Selenis Mimesis DP 300** will improve the strength and the durability of your creations.

Selenis Mimesis DP 300 is perfect for filament extrusion as its superior melt strength will ensure an even flow whilst 3D printing, producing seamless parts. The solution allows you to create detailed and multiple parts even in small designs given its superior self-linking capabilities.

Selenis Mimesis DP 300 is easy to colour with masterbatches, representing the ideal solution to transform your ideas into lively creations that are as attractive and durable as you expect.

Specifications

This table contains **Selenis Mimesis DP 300** 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.



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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 (Repeals 2002/72/EC plastics including 6 amendments).



Storage and Handling Conditions

Selenis Mimesis DP 300 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 Mimesis DP 300 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 Mimesis DP 300** 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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