



Technical Data Sheet

Selenis Maven NF 300

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Description

Selenis Maven NF 300 is an amorphous copolyester that has been specifically developed for the extrusion of heavy gauge sheets, allowing for high thicknesses without crystallisation occurring. This resin is a very economical polymer for this highly competitive market environment. In competition with other polymers frequently used in the heavy gauge sheet business such as Polycarbonate, PMMA and Polystyrene **Selenis Maven NF 300** is sensibly priced while featuring excellent clarity, good surface gloss, and a practically neutral edge colour.

This product is recommended when a demanding performance and outstanding toughness are essential, such as, good impact strength at low temperatures and good chemical resistance to detergents and other household cleaning agents.

Thanks to its inherent toughness, sheets produced from **Selenis Maven NF 300** may be down-gauged without compromising performance. Cost-savings are possible given that there is no need to pre-dry the sheets.

This resin is easy to process on standard extrusion lines up to 6mm. Sheets made with Selenis Maven NF 300 may be easily thermoformed, cold-bent, drilled, sawed, screwed, adhesive bonded, routed and personalised through different methods of decoration. All Maven grades are BPA and styrene free.

Specifications

This table contains **Selenis Maven NF 300** 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	0.80 ± 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 Maven NF 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 Maven NF 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 Maven NF 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 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.