

Solaplast 1111

Technical Data Sheet

The Solaplast 1000 series resins are algae-blended resins using a polyolefin base resin. These are thermoplastic compounds containing a significant fraction of algae biomass and bio-based additives. The Solaplast 1111 grade of resin uses a homopolymer polypropylene base resin (HoPP) with food-grade aquatic biomass and a coupling agent. This resin is a bio-content of at least 40%.

This resin can be for durable and rigid application. The resin can be used directly or as a masterbatch to be let down to desired loading levels in the end product. The Solaplast 1111 can be used for injection molding applications where bio-content, stiffness and durability are required.

Material Properties:

Melt Flow Index	8.7	g/10min	ASTM D1238
Density	1.12	g/cc	ASTM D-1505
Tensile Strength	20.8	Mpa	ASTM D638
Tensile Modulus	1142	Mpa	ASTM D639
Elongation	4.1	%	ASTM D640
Flexural Strength	6,700	Mpa	ASTM D790
Flexural Modulus	312,000	Mpa	ASTM D790

*Typical Values, not to be construed as specifications.

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