

Solaplast 2020

Technical Data Sheet

The Solaplast 2000 series of algae-blended resins using polyester base resins. These are thermoplastic compounds containing a significant fraction of algae biomass and bio-based additives. The Solaplast 2020 grade of resin uses a hyper-branched polylactic acid base resin (PLA) with industrial-grade aquatic biomass. This resin is a bio-content of at least 40%.

This resin can be for biodegradable and compostable 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 2020 can be used for injection molding applications where bio-content, high melt flow, high stiffness and compostability are required.

Material Properties:

Melt Flow Index	128	g/10min	ASTM D1238
Density	1.57	g/cc	ASTM D1505
Tensile Strength	28.7	Mpa	ASTM D638
Tensile Modulus	1765	Mpa	ASTM D639
Elongation	3.3	%	ASTM D640
Flexural Strength	8,280	Mpa	ASTM D790
Flexural Modulus	722,000	Mpa	ASTM D790

*Typical Values, not to be construed as specifications.

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