

Solaplast 1223

Technical Data Sheet

The Solaplast 1200 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 1223 grade of resin uses an impact grade copolymer polypropylene base resin (CoPP) with an industrial-grade aquatic biomass, odor additive and coupling agent. This resin is a bio-content of at least 45%.

This resin can be for durable 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 1223 can be used for injection molding and extrusion applications where bio-content and durability are required.

Material Properties:

Melt Flow Index	6.7	g/10min	ASTM D1238
Density	1.16	g/cc	ASTM D1505
Tensile Strength	11.4	Mpa	ASTM D638
Tensile Modulus	736.2	Mpa	ASTM D639
Elongation	5.7	%	ASTM D640
Flexural Strength	21.5	Mpa	ASTM D790
Flexural Modulus	937.6	Mpa	ASTM D790

*Typical Values, not to be construed as specifications.

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