

Product Overview - BioBlend® XD High Durability Resins for Caps, Closures, and Fitments

Description - BioBlend XD High Durability Resins are designed to **enhance sustainability metrics for closure applications** where finished products are generally too small to allow for economical or efficient post-consumer recycling in materials recovery facilities (MRFs).

BioBlend resins are produced by compounding plant-based, 100% natural NuPlastiQ® BioPolymer with fossil-fuel based thermoplastics such as PP, PS, HDPE or rHDPE.¹

Application - Used for products requiring durability and enhanced sustainability including injection molded, compression molded, blow molded and thermoformed plastics for caps, closures, and fitments.

Features & Benefits of XD Resins -

- XD helps reduce both fossil fuel-based plastic content and greenhouse gas generation.
- BioBlend XD maintains the physical properties of the resins with which it is compounded. These include durability and other strength characteristics.
- XD can maintain the post-industrial recyclability of its primary resin component which is typically PP, PS, or HDPE.²



¹ Recycled or recovered HDPE, including marine & ocean debris

² BioLogiQ can provide test results showing that items produced with BioBlend XD resins can be recycled in post-industrial recycling environments and that key performance characteristics are maintained. Please keep in mind that real world conditions will determine consistent success in this regard. These conditions are a regular part of production activities and include processing temperatures, variations in overall batch composition, and final conversion specifications.



Smart Solutions For A Sustainable World

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Typical BioBlend XD Resins (50% Masterbatch) for Caps, Closures, and Fittings

Product	Partner Resin	Typical Use	Density (g/cm ³)	MFI (gm/10 min)
BioBlend XD 25150	PP	Injection, Compression Molding	1.16	3.5-4.4 190°C @ 2.16kg
BioBlend XD 25250	PP	Injection, Compression Molding Extrusion	1.20	3.0 190°C @ 2.16kg
BioBlend XD 22620	HDPE	Blow Molding	1.04	1.08 190°C @ 5.0kg
BioBlend XD 26150	PS	Injection, Compression Molding	1.23	1.09 190°C @ 5.0kg

Please note that BioBlend XD resins are generally made to customers' specific requirements. Those listed above are standard masterbatches consisting of 50% NuPlastiQ and 50% of the specified partner resin. Please contact your BioLogiQ sales representative regarding your specific performance and resin requirements.

Disclaimer/Key Information

BioLogiQ makes no warranty of fitness for a particular purpose or warranty of merchantability with respect to NuPlastiQ BioPolymer. BioLogiQ does not warrant, claim, or ensure that finished goods made with its materials will meet generally accepted standards and/or certifications related to biodegradability or composting. Customers should submit their finished goods, and the materials used to produce them, to the proper testing labs, standards authorities, and certification organizations for evaluation and proof of performance.

The information in this brochure was current at the time of release, and may have changed. Please consult your BioLogiQ representative for the most current data.