



POLYLABS™

BIO POLYOL EGT 345

Advancing Sustainable PU Production

Technical Data Sheet

Bio Polyol EGT 345 is a polyester linear polyol derived from second-generation feedstocks—forestry by-products that do not compete with food supply chains. Tailored as an additive for rigid PU foam systems and other applications, it radically reduces CO₂ footprints in PU products.

Key advantages:

- Low Carbon Footprint -1.2 KgCO₂eq/kg.
- Bio carbon content 96 %.
- Increased solubility with pentanes as well as with HFO blowing agents.
- Reduce viscosity in PU systems.
- Primary and secondary OH groups.
- Green production in an eco-friendly process.

Technical properties	Value	Measurement unit	Based on method
CO ₂ footprint	-1.2	KgCO ₂ eq/kg	Internal CO ₂ calculation
Bio carbon content	96	%	Estimation
Hydroxyl number	335 – 355	mgKOH/g	DIN 53240
Acid number	< 5	mgKOH/g	DIN 53402
Density at 20°C	972	kg/m ³	DIN 51757
Viscosity at 25 °C	150 – 210	mPa·s	DIN 53015
Functionality	2.0		Estimation
Water content	< 0.2	wt. %	DIN 51777
Avg. molecular weight	240 - 440	Da	GPC
Shelf life	Shelf Life of 6 months for packaged material stored at ambient temperatures of < 30°C.		
Storage	Bio Polyol EGT 345 is hygroscopic. Container should be sealed at all times unless discharging.		

The CO₂ footprint provided is based on a Cradle-to-Gate assessment, including raw material sourcing, transportation, and production emissions.

Carbon footprint includes biogenic CO₂. Calculations excluding biogenic CO₂ are available upon request, in accordance with customer requirements.

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