



POLYLABS™

Technical Data Sheet

Bio Polyol TD is a bio-based polyol, mainly for rigid PU foam production. For rigid foam production, this polyol is used in a mixture with cross-linking polyols whose functionality is at least five. Our suggested ratio between Bio Polyol TD and a cross-linking polyol is approx. 70:30 by mass.

General description	Polyol is synthesized from pine chemicals.		
Shelf life	Shelf Life of 12 months for packaged material stored at ambient temperatures of < 38°C. After opening the container the shelf life of the material is 6 months at temperatures of < 38°C		
Features	Natural Oil Based. – estimated biocarbon content ~ 80 %		
Typical properties	Value	Measurement unit	Based on method
Acid Value	< 5	mgKOH/g	DIN 53402
Density	0.987	g/ml	DIN 51757
Hydroxyl number	250 - 290	mgKOH/g	DIN 53240
Hydroxyl type	100% primary hydroxyl groups; polyol contains minor amount of secondary amine groups		Known Structure
Viscosity at 25 °C	500 - 800	mPa·s	DIN 53015
Functionality	2.0 - 2.1		Estimation
Water content	≤ 0.2	wt. %	DIN 51777
Avg. molecular weight	435-455	Da	GPC

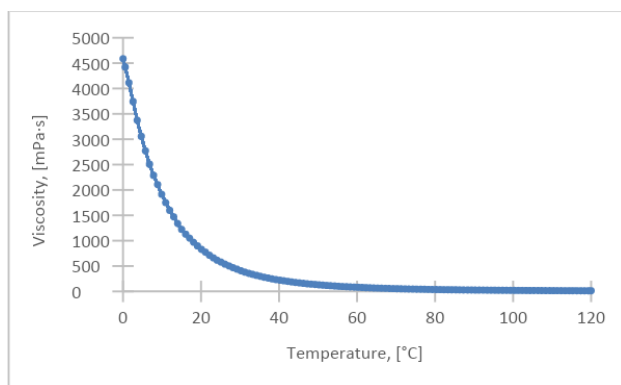
Application

- Main application of this polyol is the production of rigid polyurethane foams by spraying equipment.

Storage

Bio Polyol TD is hygroscopic. The container should be sealed at all times unless discharging. Due to the reactive nature of the material with isocyanates, containers should be tightly sealed and stored at 0-38°C.

Bio Polyol TD should not be heated over 70°C for longer than 48 hours. If the material is exposed to >70°C for extended periods of time, undesirable side reactions could occur that could cause variations in the properties of the prepared formulations.



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