Technical Data Sheet

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

General description	Polyol is synthesized from pine chemicals. It contains primary hydroxyl functional groups and tertiary amine groups. This polyol is catalytically active and can be used for spraying PUR formulations.		
Shelf life	Shelf Life of 24 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 bio carbon content ~ 70 %		
Typical properties	Value	Measurement unit	Based on method
Acid Value	< 5	mgKOH/g	DIN 53402
Density	0.997	g/ml	DIN 51757
Hydroxyl number	300 - 340	mgKOH/g	DIN 53240
Hydroxyl type	100% primary hydroxyl groups; polyol contains tertiary amine groups		Known Structure
Viscosity at 25 °C	100 - 250	mPa·s	DIN 53015
Functionality	2.0 - 2.1		Estimation
Water content	< 0.2	wt.%	DIN 51777
Avg. molecular weight	435-455	Da	GPC

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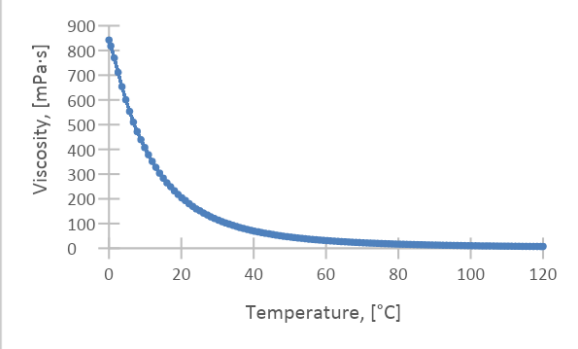
Application

• Main application of this polyol is for production of rigid polyurethane foams by spraying equipment. Tertiary amine groups make this polyol useful for fast curing systems.



Storage

Bio Polyol TT is hygroscopic. 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 TT 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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