

Technical Data Sheet



POLYLABS™

Bio Polyol RD 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 RD and the cross-linking polyol is approx. 70:30 to 80:20 by mass.

General description	Polyol is synthesized from rapeseed oil.		
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 ~ 83 %		
Typical properties	Value	Measurement unit	Based on method
Acid Value	<5	mgKOH/g	DIN 53402
Density	0.976	g/ml	DIN 51757
Hydroxyl number	360 - 410	mgKOH/g	DIN 53240
Hydroxyl type	Up to 100 % of hydroxyl groups are primary; polyol contains a minor amount of secondary amine groups		Known Structure
Viscosity at 25 °C	800 - 1000	mPa·s	DIN 53015
Functionalty	2.1		Estimation
Water content	< 0.2	wt. %	DIN 51777
Avg.molecular weight	390 - 410	Da	GPC

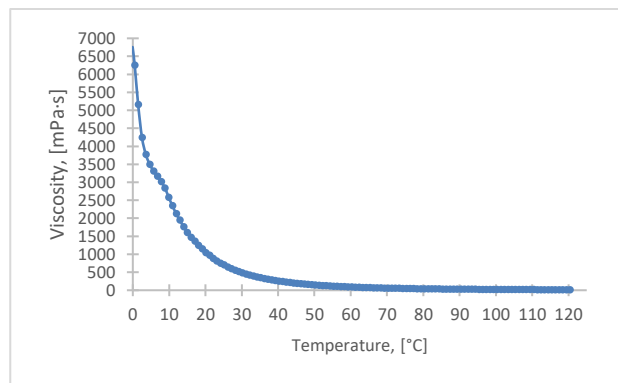
Application

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

Storage

Bio Polyol RD 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 RD should not be exposed to a temperature of 70°C 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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