



POLYLABS™

BIO POLYOLS



FROM
RENEWABLE
RESOURCES

ABOUT US

Polylabs is a European bio-chemical production company. Our expertise is development and manufacture of bio polyols for polyurethanes, synthesized from renewable and sustainable resources.

SUSTAINABLE PRODUCT

Our bio polyols are environmentally friendly linear and branched polyester polyols derived from renewable resources - side streams from the forestry and food industry, as well as natural oils, revolutionizing eco-friendly foam production. They offer a wide range of hydroxyl values, functionalities, and viscosities for diverse applications. The CO₂ footprint sets these polyols apart as a better choice for sustainable polyurethanes. Tailored for PUR/PIR foam and other applications, they combine technical prowess with environmental responsibility.

Advantages:

COMPETITIVE PRICE

Our bio polyols are competitively priced compared to fossil-based and other bio-based polyols.

CO₂ FOOTPRINT

Our bio polyols have radically reduced CO₂ footprint down to CO₂ negative.

RENEWABLE SOURCE

We are using sidestream and waste products from the wood and food industry & natural oils.

COMPATIBILITY

Our bio polyols have excellent compatibility with other polyols, isocyanate and especially pentanes.

NEW OPPORTUNITIES

Enhance formulations with increased bio-carbon content, paving the way for reduced CO₂ emissions and sustainable advancements.

EMBRACE INNOVATION WITH US FOR A SUSTAINABLE FUTURE



TECHNICAL DETAILS

Product	CO ₂ footprint kgCO ₂ /kg	Bio carbon content	OHV, mgKOH/g	Viscosity, mPa*s	Functionality	Water, %	Structure
UPT 240 Premium	-0.34	73 %	230 - 250	250 - 450	2	<0.2	Linear
UPT 180 Premium	-0.33	74 %	170 - 190	450 - 650	2	<0.2	Linear
UPT 130 Premium	-0.34	75 %	120 - 140	850 - 1050	2	<0.2	Linear
UPT 240	-0.17	69 %	230 - 250	250 - 450	2	<0.2	Linear
UPT 180	-0.01	66 %	170 - 190	450 - 650	2	<0.2	Linear
UPT 130	0.10	63 %	120 - 140	850 - 1050	2	<0.2	Linear
UPR 220	1.30	71 %	210 - 230	70 - 130	2	<0.2	Linear
UPR 180	1.36	69 %	170 - 190	130 - 190	2	<0.2	Linear
TDR 360	1.12	80 %	350 - 370	550 - 750	2	<0.5	Linear
TDR 305	1.06	82 %	295 - 315	400 - 600	2	<0.5	Linear
UPR F 250	1.47	62 %	240 - 260	1850 - 2450	3.2	<0.2	Branched
UPR F 220	1.40	60 %	210 - 230	4350 - 4950	3.5	<0.2	Branched
UPR F 105	1.45	67%	95 - 115	3300 - 3900	3	<0.2	Branched
RD	1.38	83 %	360 - 410	800 - 1000	2.1	<0.2	Linear
TT	-0.04	70 %	300 - 340	300 - 400	2.1	<0.2	Linear

*acid value for all polyols <5mg KOH/g



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