

Introducing a Family of Sustainable High Performance Polyols

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Agenda:

- Growth Drivers towards a Bio-Based Environment
- Introduction of an Environmentally Friendly Production Process
- Characteristics & Applications of a Novel Bio-Based Polyol
- Features & Benefits of a Bio-Based High Performance Polyol
- Sustainable High Performance Polyols as a Building Block or Additive for various PU applications

Abstract:

Allessa is a member of the WeylChem Group of companies and offers a portfolio of high-performance polyether polyols which are made with renewably sourced 1,3-propanediol. The polyether polyols provide a multitude of advantages in various applications without compromising functionality and, at the same time increasing the renewable content of end products, and so are an ideal replacement for petroleum based inputs and polyols.

The polyether polyols offer exceptional performance to manufacturers of high-performance thermoplastic elastomers (TPEs), apparel and footwear, performance coatings, ink-jet inks and functional fluids. Thus, these polyols are an environmentally friendly, safe, effective and compatible replacement for commonly used petroleum-based ingredients and polyols for final product formulations.

Compared to petrochemical alternatives such as poly-(tetramethylene-ether)glycol (PTMEG), polypropyleneglycol (PPG), polyethyleneglycol (PEG), polypropanediol has a significantly lower environmental footprint, saving 40 % in nonrenewable energy consumption and reducing greenhouse gas emissions by 42 % as proved by an ISO 14000-compliant life cycle analysis.