

CO₂nverge[®] Polyol CPX-2501-56

Description

Converge polyol CPX-2501-56 is a filtered 2000 molecular weight polymer produced from propylene oxide and carbon dioxide. It is an amorphous, linear, aliphatic polycarbonate diol. Carbon dioxide accounts for ~20% of the polyol mass.

Applications

Converge polyol CPX-2501-56 is a high performance and solvent-free building block for a variety of polyurethane systems. It is used in the preparation of adhesives, coatings, elastomers, rigid foams, flexible foams and TPUs.

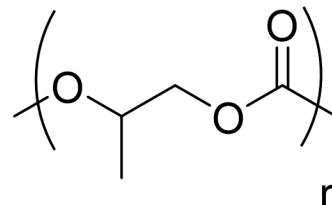
Features

This novel polyol delivers unique performance to polyurethanes. In adhesive applications, it provides improved strength including improved adhesion to a variety of substrates. Converge polyol CPX-2501-56 can also be used as a strength enhancer in coating and elastomer applications.

Formulation and Compatibility

Converge polyol CPX-2501-56 can be easily blended into existing urethane systems. Increased temperature (~50C) is recommended to reduce viscosity and aid mixing. It has excellent compatibility with polyester and polyether polyols and isocyanates. Converge polyol CPX-2501-56 is compatible with all standard chain extenders, surfactants, and catalysts. It is sensitive to degradation in the presence of high levels of tertiary amine catalysts over time; it is recommended that such systems are consumed the same day they are prepared.

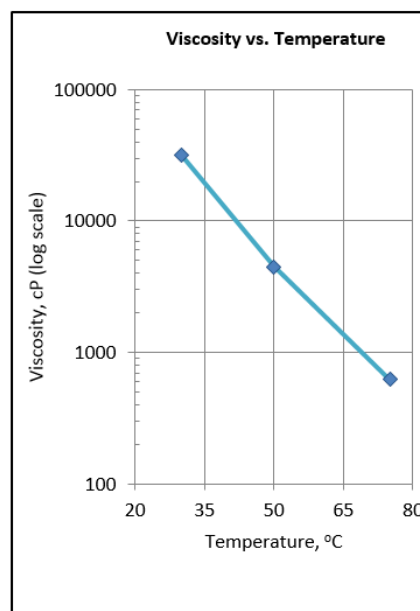
Regulatory: TSCA exempt under EPA Polymer exemption; will be covered under existing REACH monomer registrations.



Typical Properties of CPX-2501-56*

Functionality	2.0
Molecular Weight (g/mol)	2,000
Polydispersity Index	1.1
OH Number (mg KOH/g)	56
Density (g/mL)	1.13
Viscosity (cP at 25 C)	32,000
Acid Number (mg KOH/g)	< 1.0
Water Content (wt%)	< 1.0
Color	yellow to amber

* these properties are typical values and are not to be considered product specifications.



Patent protected under US8,247,520 and CN102149746B, other patents pending