



Instrumental Polymer Technologies, LLC

## Technical Data Sheet

### PACAPOL™ L500

APPEARANCE.....	CLEAR VISCOUS LIQUID
MOLECULAR WEIGHT RANGE.....	490-510g/mol
EQUIVALENT WEIGHT.....	250g/equivalent
HYDROXYL NUMBER.....	224mgKOH/g
HYDROXYL FUNCTIONALITY.....	2
SOLUBILITY IN WATER.....	0%
SOLUBILITY IN BUTYL ACETATE.....	COMPLETE
SOLUBILITY IN TOLUENE.....	COMPLETE

#### Description

PACAPOL™ L500 is a linear aliphatic polycarbonate polyol containing cycloaliphatic and linear aliphatic units for excellent processing and improved toughness; the linear aliphatic groups offer high flexibility, the cycloaliphatic groups offer improved abrasion resistance, and the combination reduces the viscosity of the material. The polycarbonate backbone within a urethane formulation contributes excel toughness such as abrasion resistance and impact resistance as well as resistance to stress cracking.

The carbonate linkage also offers excellent resistance to UV exposure, chemicals and water. Particularly unique is the fact that our PACAPOL polyols can form polyurethanes for continuous submersion in water. This property, along with the abrasion resistance makes the product excellent for uses where rain or water erosion is a concern.

#### Applications

PACAPOL™ L500 can be used to make a prepolymer or can be used as a coreactant with other polyols to contribute a combination of durability and flexibility.