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Poly lactide (PLA) is a bio-based, biodegradable polymer, which is derived from lactic acid and has numerous potential applications, some of which are limited by its moisture barrier and thermal properties.

### **Synthesis of polylactide with varying molecular weight and**

Presumably the chemistry of the formation of PdS oligomer is based on an equilibrating polycondensation reaction between two reactants: a dihalogenated compound, bis(2-chloroethyl)formal (Cl-R-Cl, R = CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>) and alkali sodium polysulfide (Na<sub>2</sub>S<sub>x</sub> where x = 2-5).

### **Oxidative photopolymerization of thiol-terminated**

In this work, in situ dielectric analysis (DEA) was employed for the first time to the best of our knowledge, to monitor the curing process of polysulfide (PSF) sealant using manganese dioxide (MnO<sub>2</sub>) as the curing agent, where the gel point and ending point were determined.

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