

# Accepted Manuscript

Chemical recycling of poly(lactic acid) by water-ethanol solutions

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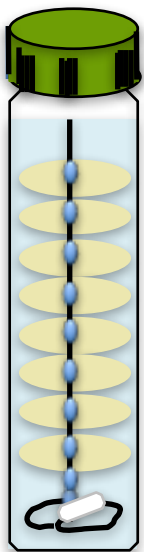
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PLA



Hydrolysis in 50% Ethanol

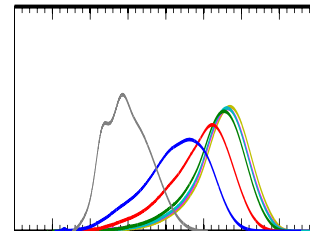
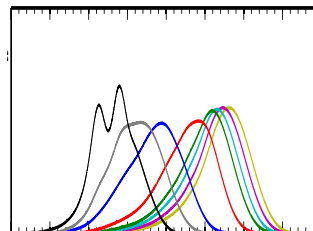
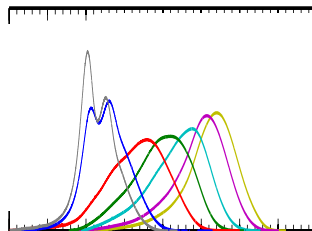
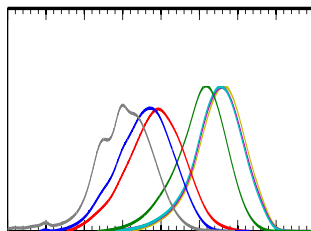


40 °C

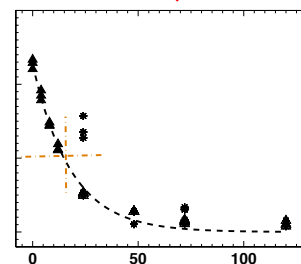
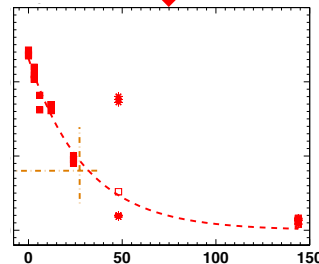
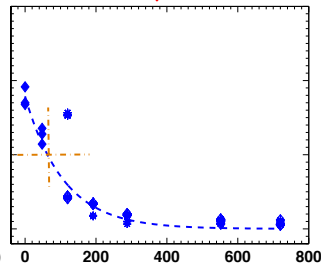
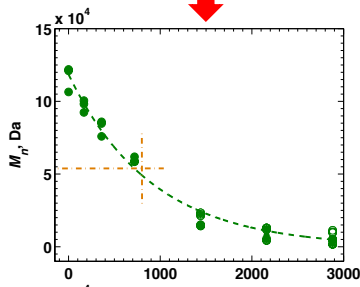
60 °C

70 °C

80 °C



*MWD*



*M<sub>n</sub>*  
vs  
time

Reparameterization of the Arrhenius equation

$$M_n = M_{no} \exp \left( k_{ref} \exp \left[ -\frac{E_a}{R} \left( \frac{1}{T} - \frac{1}{T_{ref}} \right) \right] t \right)$$

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