

Amazon – Monomers

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Experimental approach

- Batch reactions (HTHPQCS).
- Air was used as source of O₂
- Source of metals:

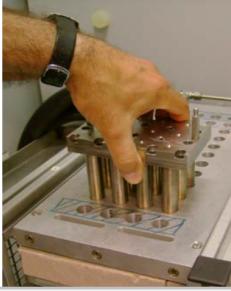
-Co: $Co(AcO)_2 \cdot 4H_2O$

-Mn: Mn(AcO)₂•4H2O

-Br: NaBr

- Acetic acid was used as solvent.
- -The samples were analyzed by HPLC

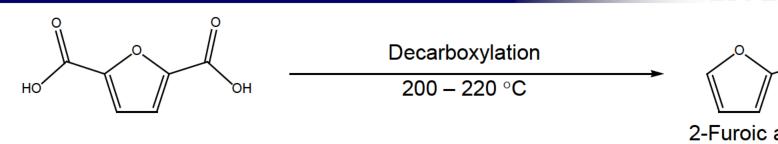






Results:

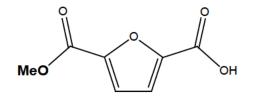
Effect of the temperature



2-Furoic acid will act as end-capper in the polycondensation lowering final molecular weight

Results:

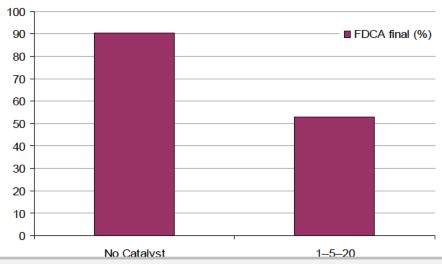
Stability of products.



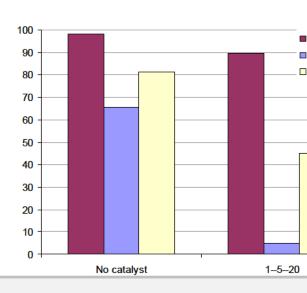
Co/Mn/Br

T= 220 °C P= 60 bar Cat loading= 0.78 %

Pure FDCA

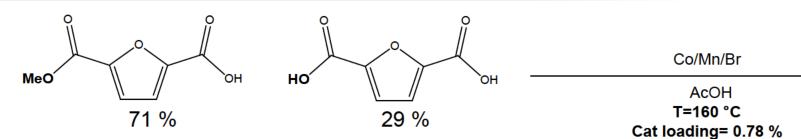


Mixture FDCA / FDCA1/2





Results: Stability of products. 160 °C and 60 & 20 bar.



Pressure: 20 bar.

115 Water was added to these samples 110 ■ FDCA final (%) 105 ■ FDCA1/2Me final (%) □ Mass balance (%) 100 95 90 85 80 None 1-5-5 1-5-20 1--5--5 1--5--20 Catalyst composition

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Pressure: 60 bar.



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