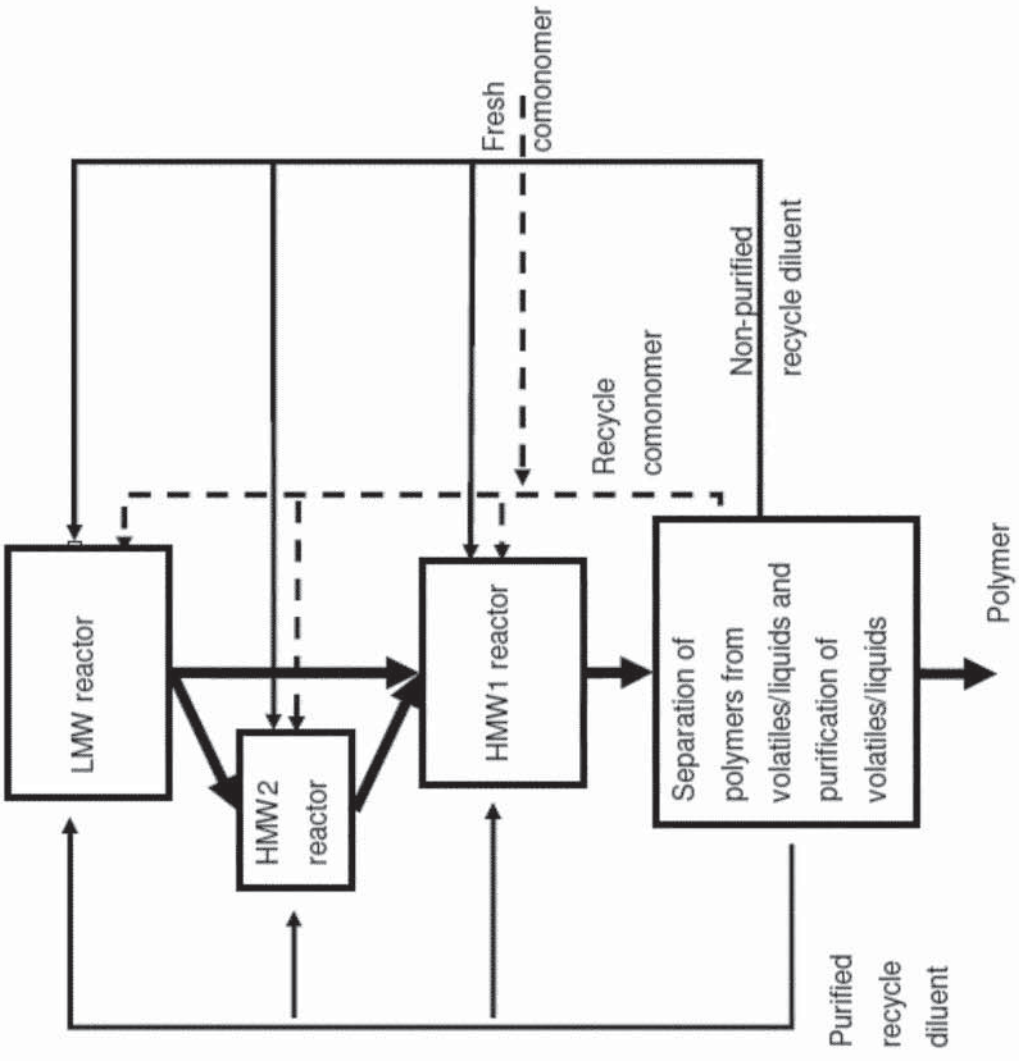
Fresh comonomer
Recycle comonomer
Non-purified recycle diluent
LMW reactor
HMW2 reactor
HMW1 reactor
Separation of polymers from volatiles/liquids and purification of volatiles/liquids
Polymer
Purified recycle diluent

Figure 1

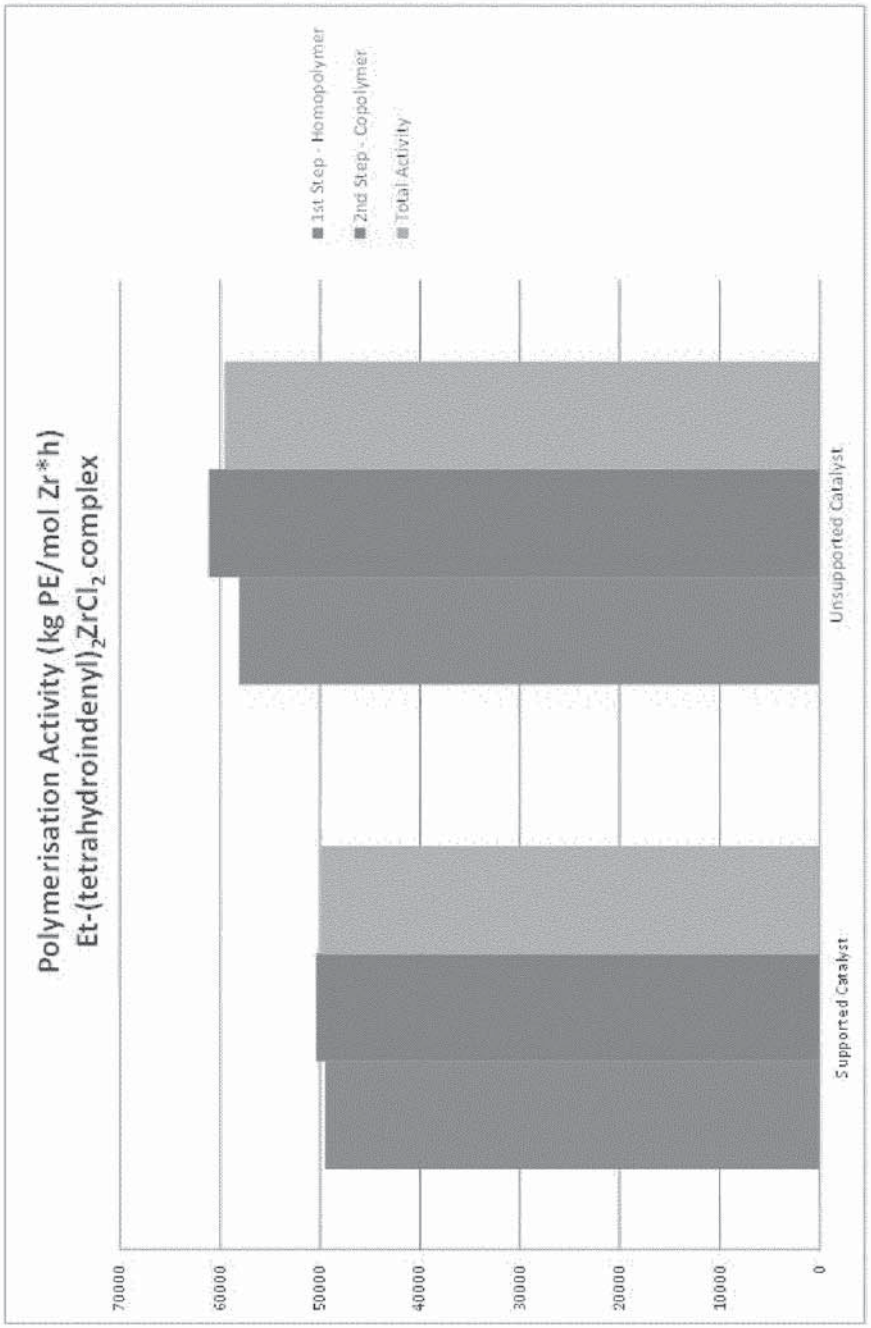
Polymerisation Activity (kg PE/mol Zr*h)
Et-(tetrahydroindenyl)2ZrCl2 complex
1st Step - Homopolymer
2nd Step - Copolymer
Total Activity
70000
60000
50000
40000
30000
20000
10000
0
Supported Catalyst
Unsupported Catalyst

Figure 2

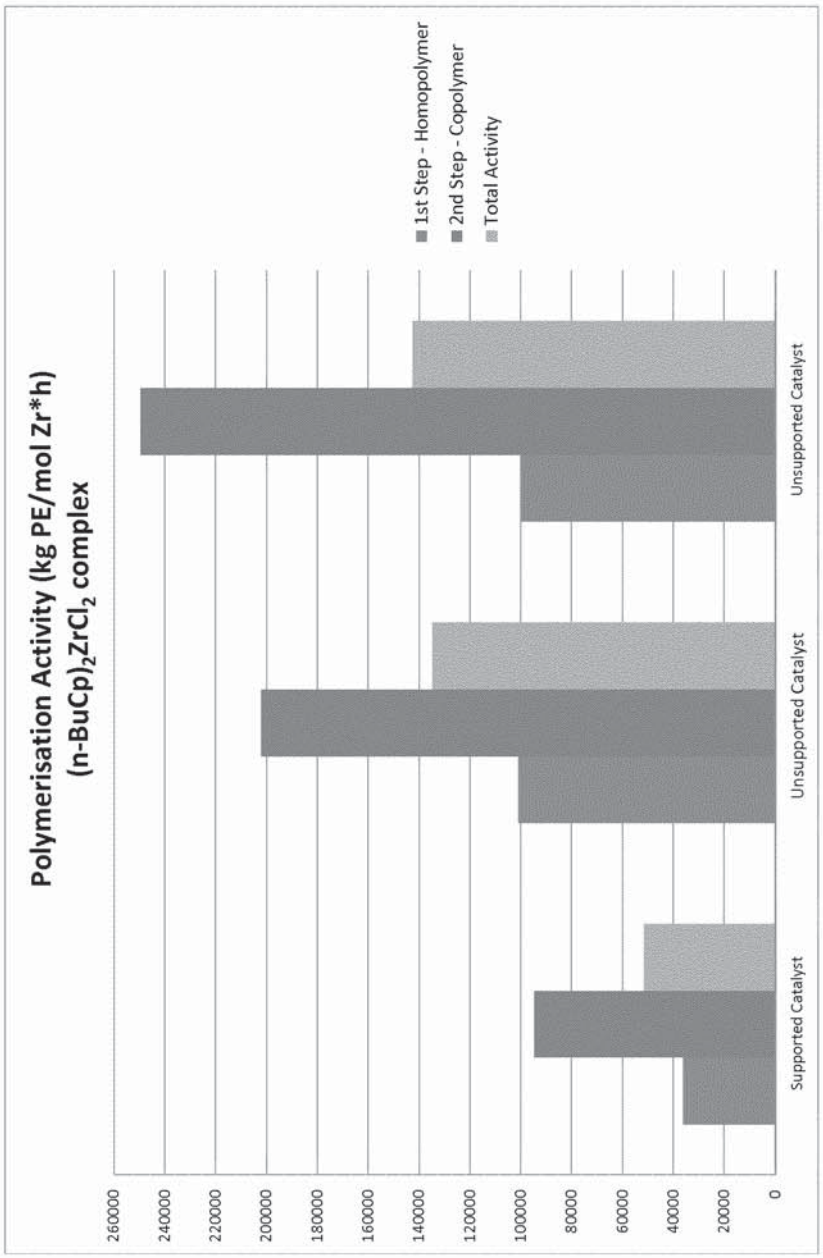
Polymerisation Activity (kg PE/mol Zr*h)
(n-BuCp)2ZrCl2 complex
1st Step - Homopolymer
2nd Step - Copolymer
Total Activity
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Supported Catalyst
Unsupported Catalyst
Unsupported Catalyst

Figure 3

Figure 4B

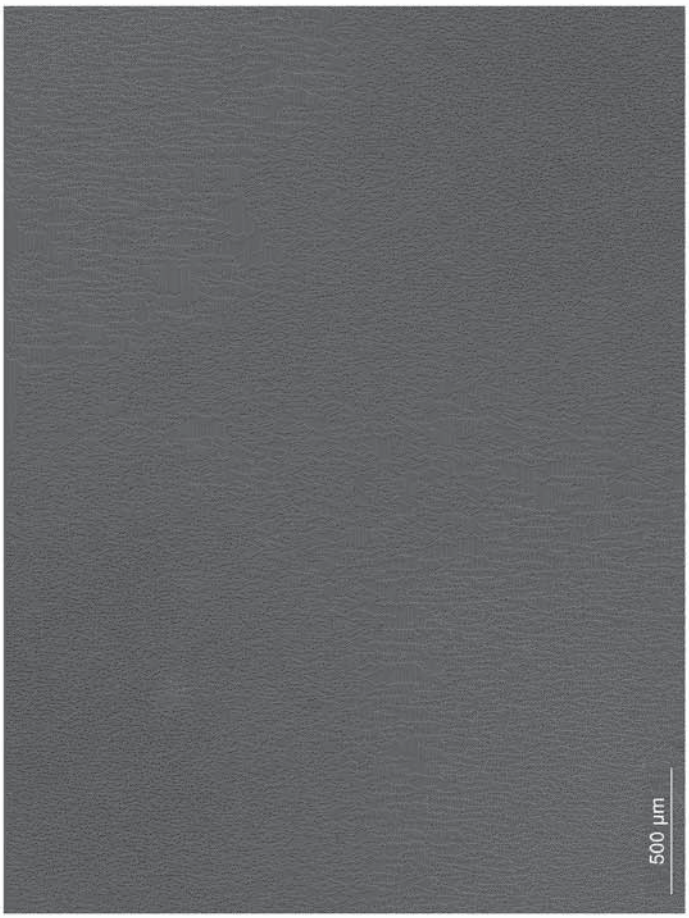

Figure 4A