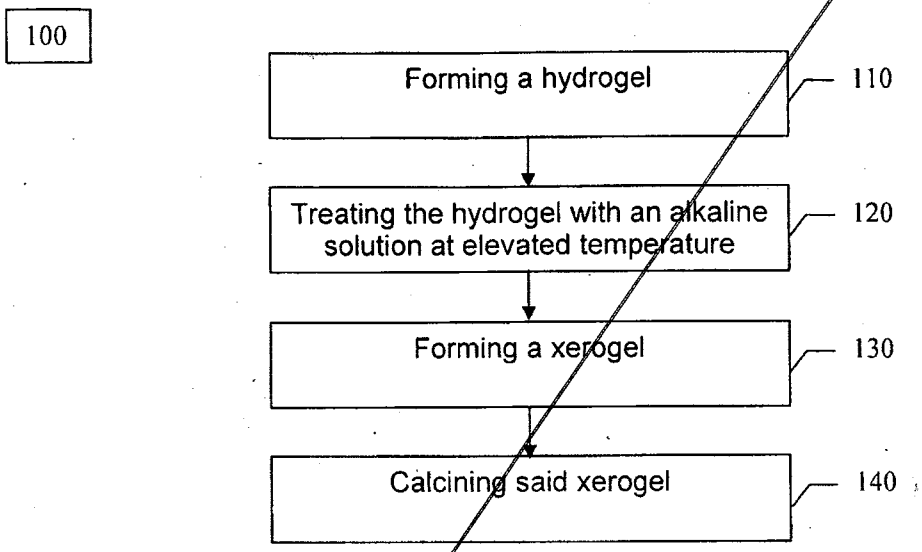
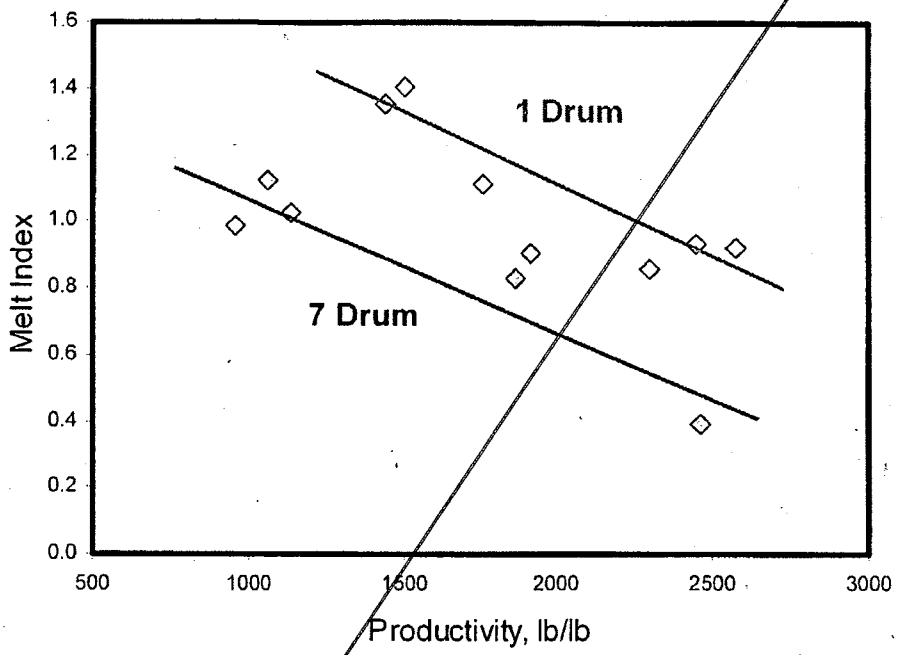
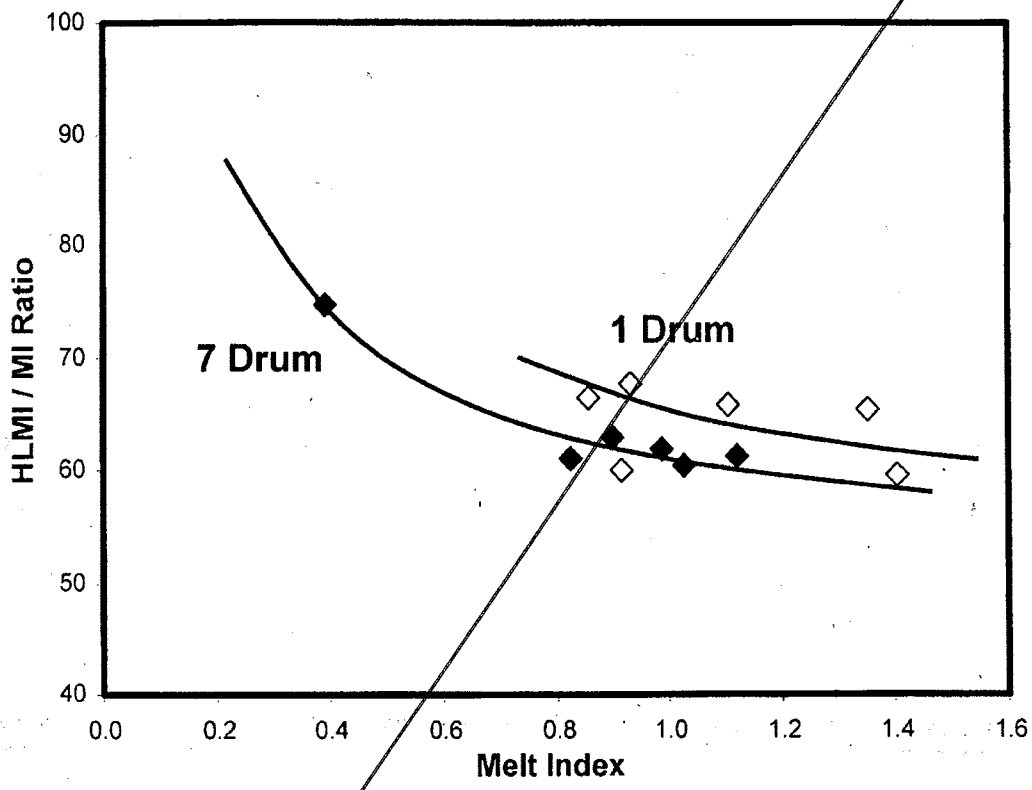
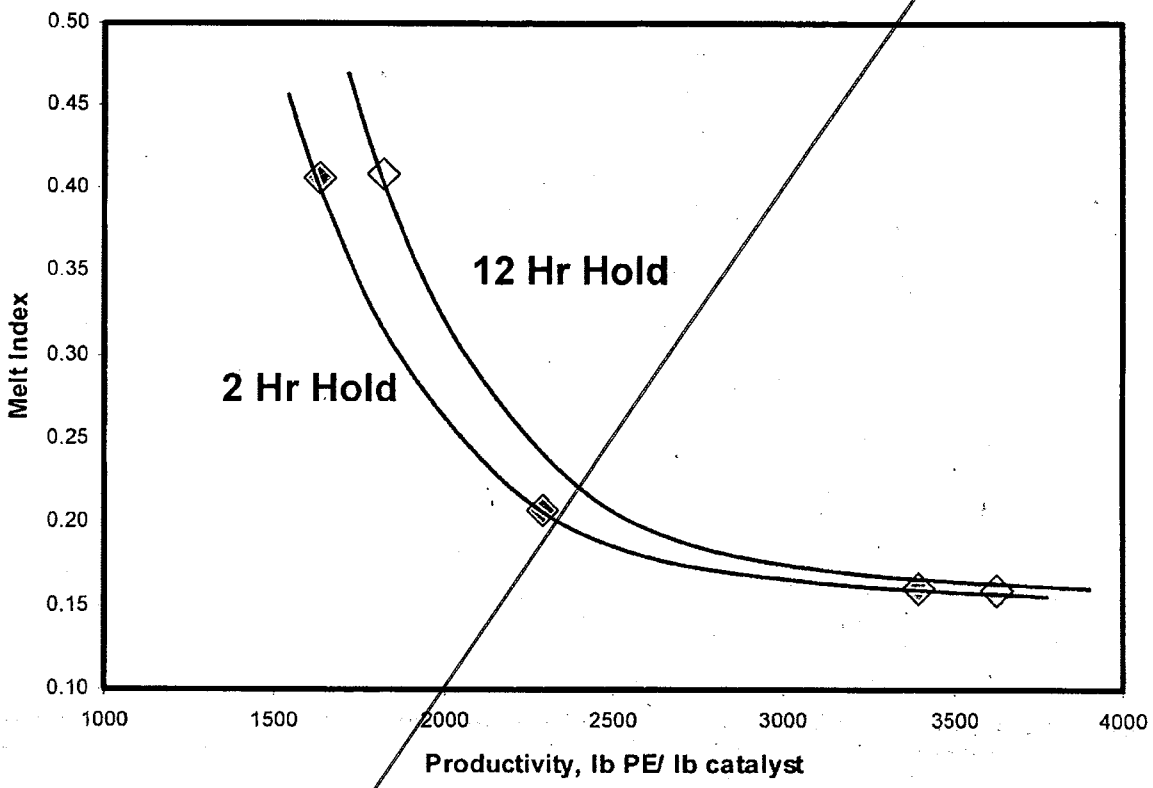

100
Forming a hydrogel
110
Treating the hydrogel with an alkaline solution at elevated temperature
120
Forming a xerogel
130
Calcining said xerogel
140


1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Melt Index
1 Drum
7 Drum
500
1000
1500
2000
2500
3000
Productivity, lb/lb


100
90
80
70
60
50
40
HLMI / MI Ratio
7 Drum
1 Drum
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Melt Index


0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
Melt Index
12 Hr Hold
2 Hr Hold
1000
1500
2000
2500
3000
3500
4000
Productivity, lb PE/ lb catalyst

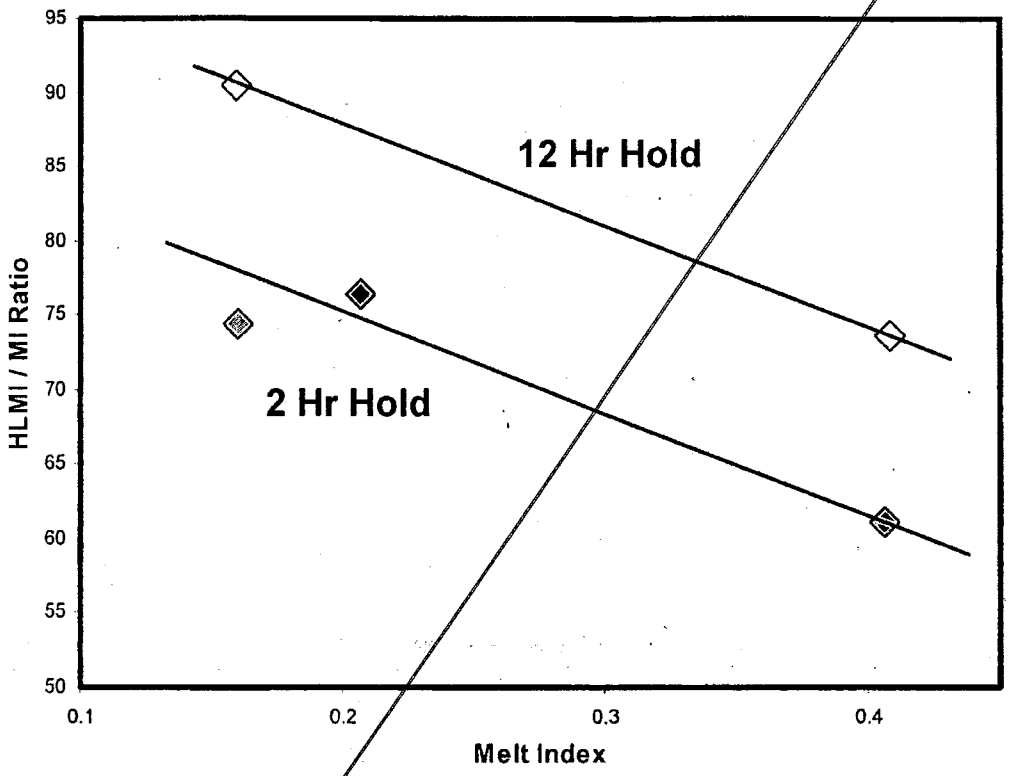

95
90
85
80
75
70
65
60
55
50
HLMI / MI Ratio
12 Hr Hold
2 Hr Hold
0.1
0.2
0.3
0.4
Melt Index

FIGURE 1

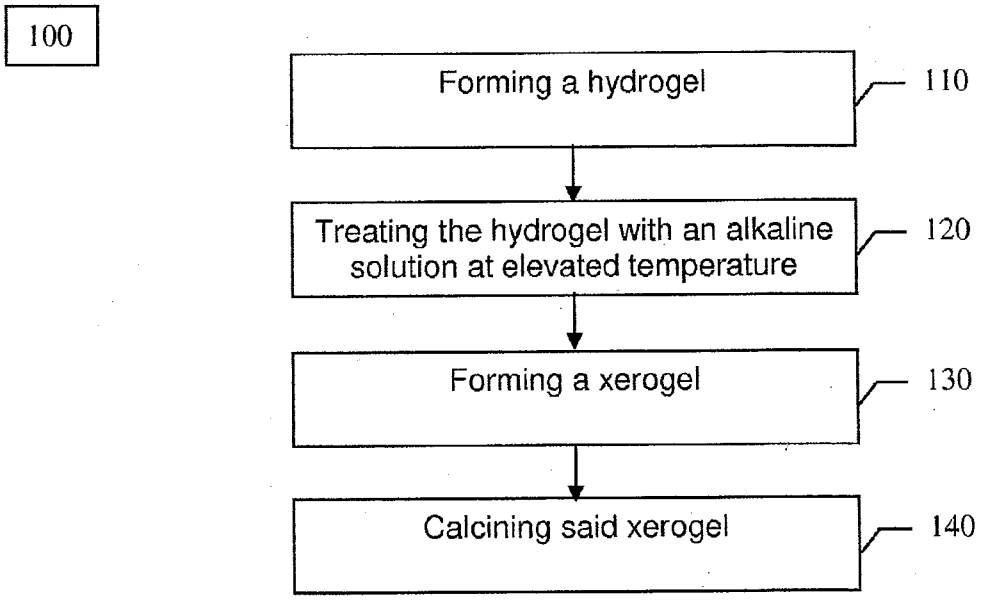

100
Forming a hydrogel
110
Treating the hydrogel with an alkaline solution at elevated temperature
120
Forming a xerogel
130
Calcining said xerogel
140

FIGURE 2

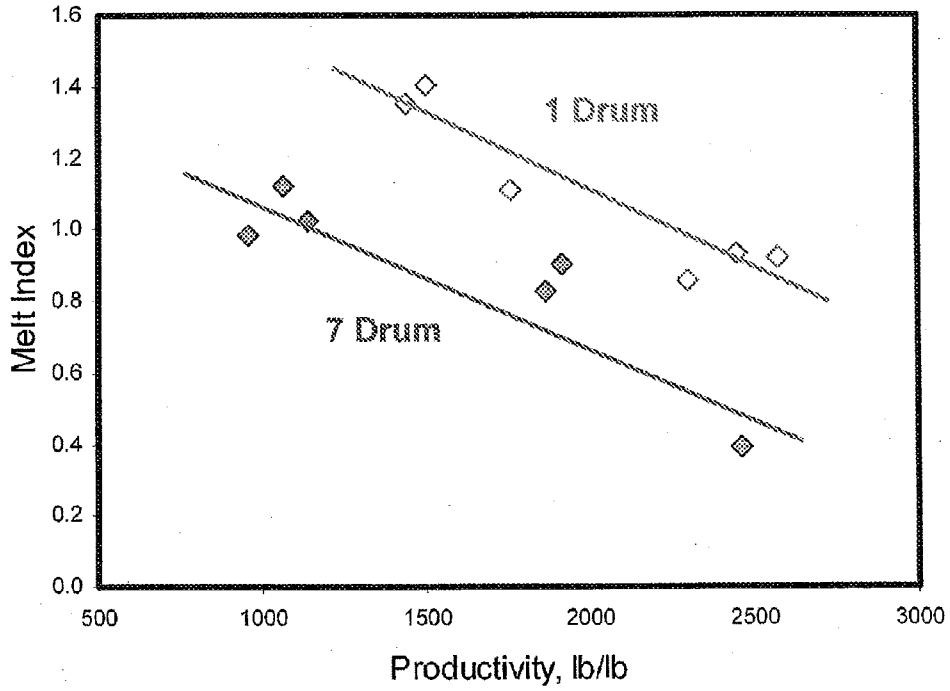

1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Melt Index
1 Drum
7 Drum
500
1000
1500
2000
2500
3000
Productivity, lb/lb

FIGURE 3

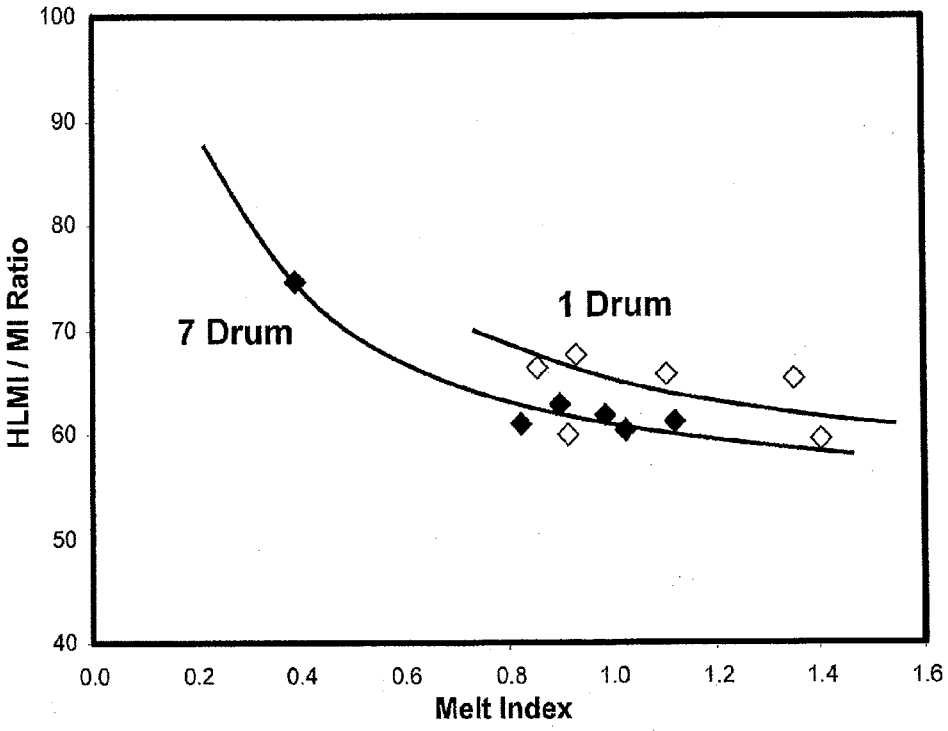

100
90
80
70
60
50
40
HLMI / MI Ratio
7 Drum
1 Drum
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Melt Index

FIGURE 4

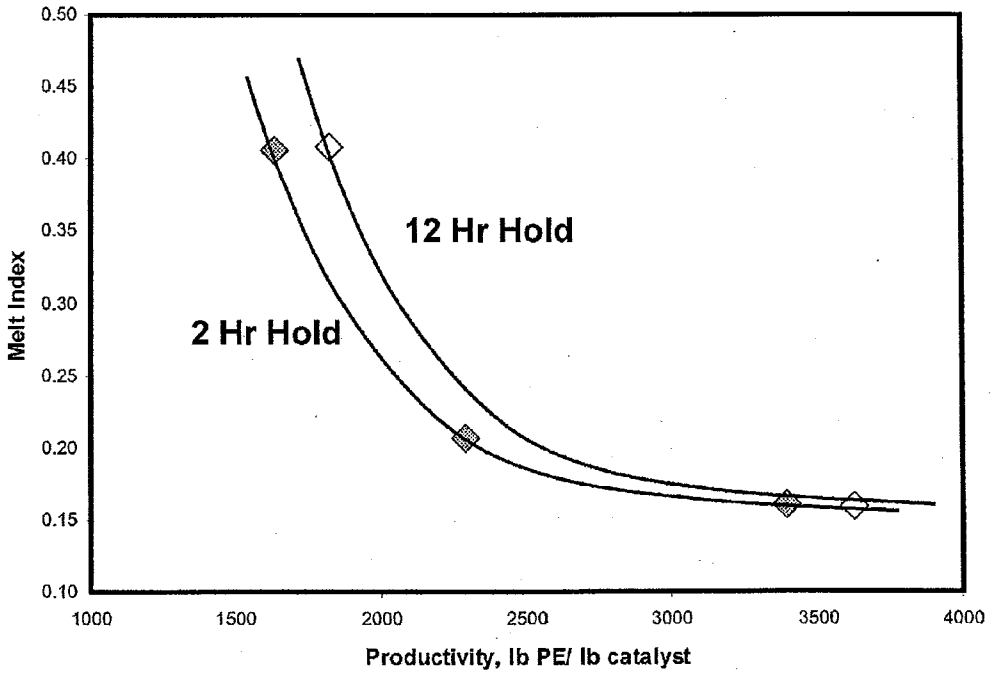
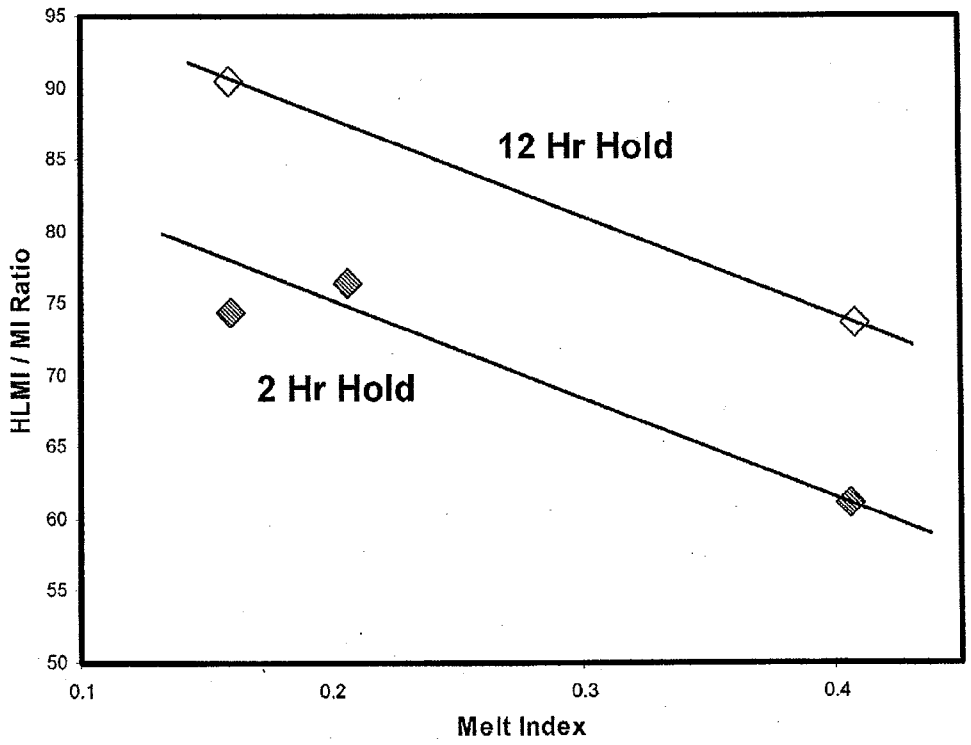

0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
Melt Index
12 Hr Hold
2 Hr Hold
1000
1500
2000
2500
3000
3500
4000
Productivity, lb PE/ lb catalyst

FIGURE 5


95
90
85
80
75
70
65
60
55
50
HLMI / MI Ratio
12 Hr Hold
2 Hr Hold
0.1
0.2
0.3
0.4
Melt Index