Fig. 1

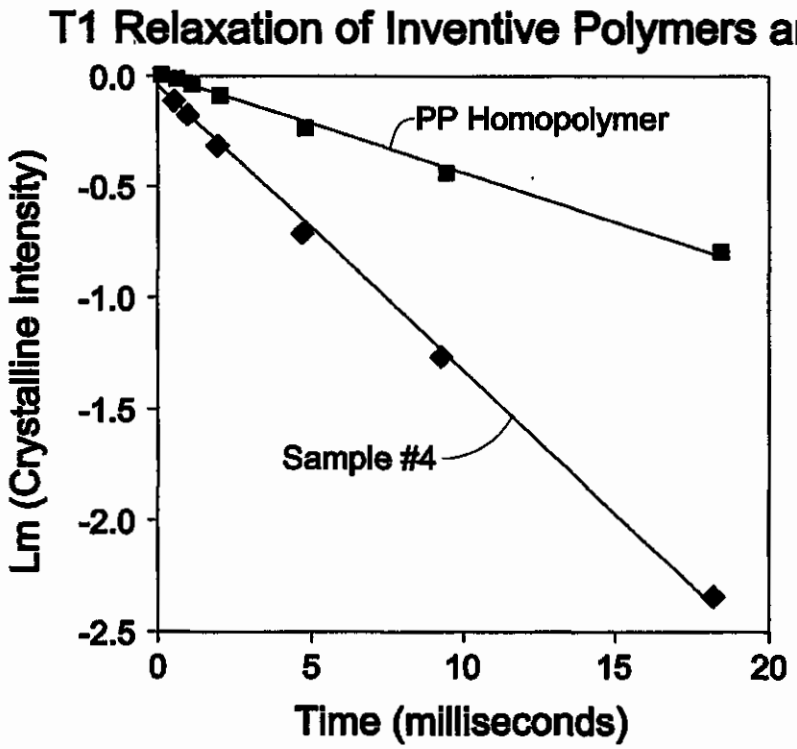

T1 Relaxation of Inventive Polymers and PP
Lm (Crystalline Intensity)
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
PP Homopolymer
Sample #4
0
5
10
15
20
Time (milliseconds)

Fig. 2

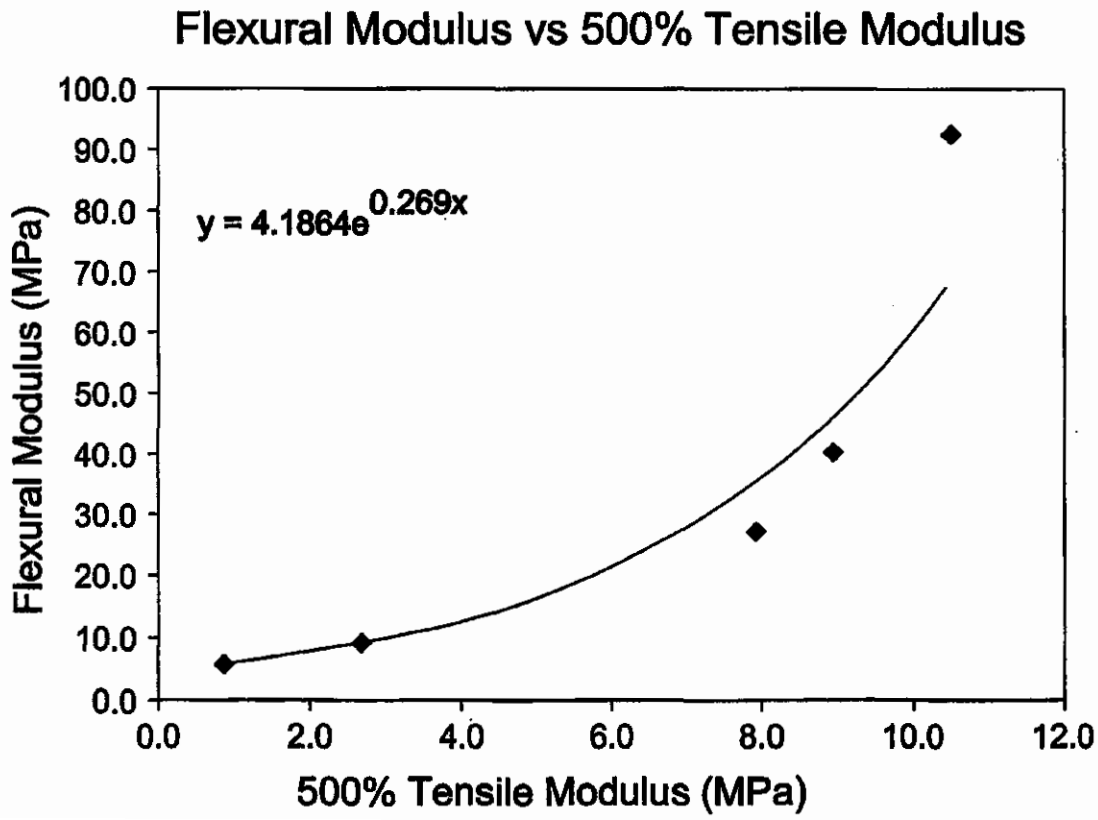

Flexural Modulus vs 500% Tensile Modulus
Flexural Modulus (MPa)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
y = 4.1864e^0.269x
0.0
2.0
4.0
6.0
8.0
10.0
12.0
500% Tensile Modulus (MPa)

Fig. 3

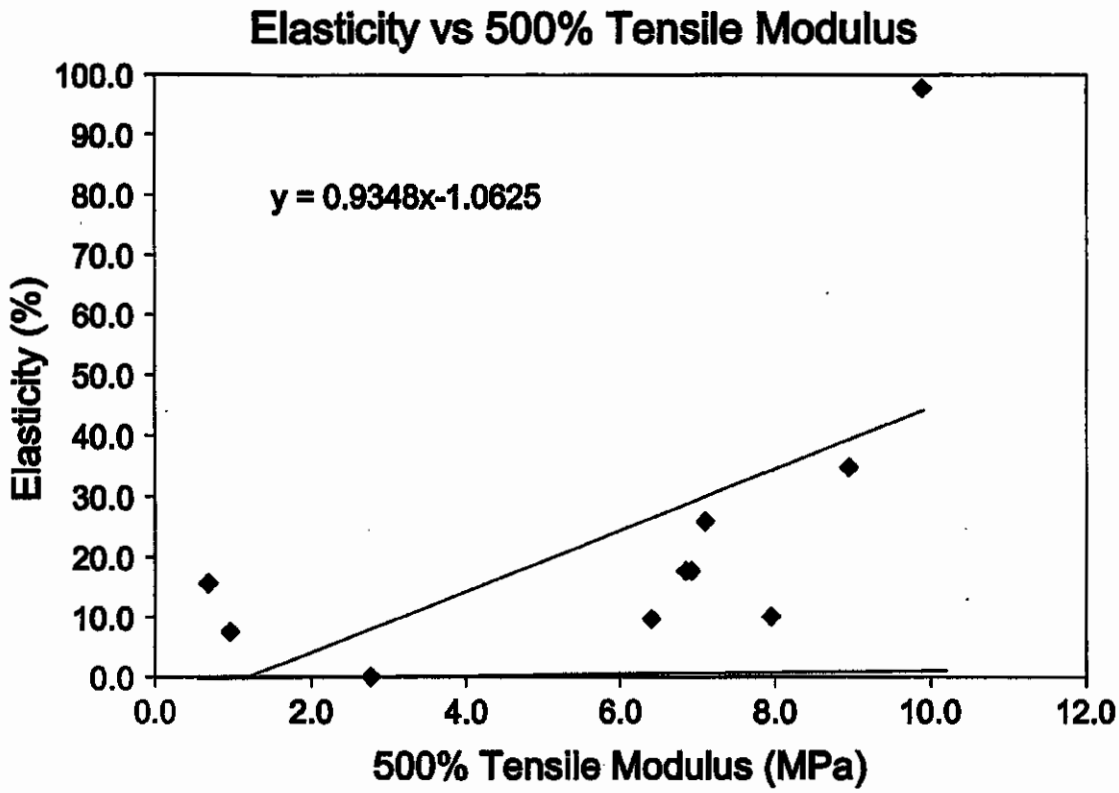

Elasticity vs 500% Tensile Modulus
y = 0.9348x-1.0625
Elasticity (%)
500% Tensile Modulus (MPa)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0.0
2.0
4.0
6.0
8.0
10.0
12.0

Fig. 4

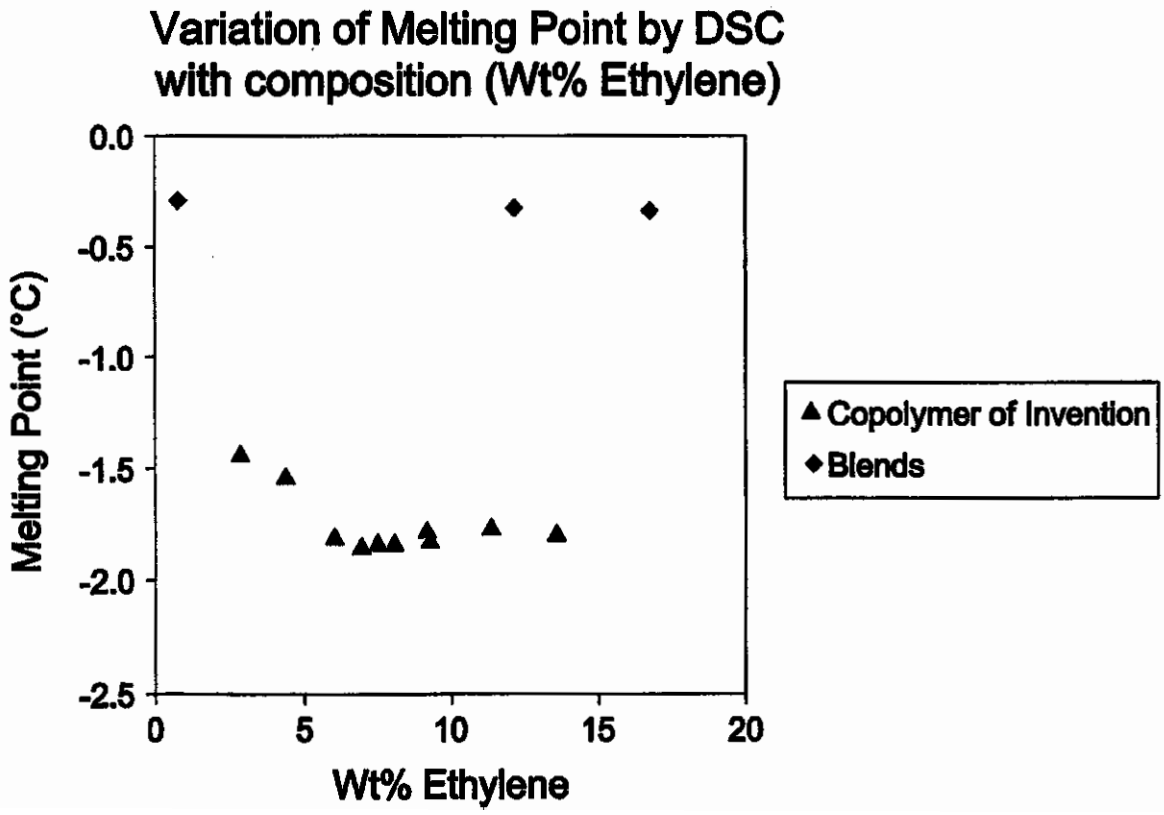

Variation of Melting Point by DSC
with composition (Wt% Ethylene)
Melting Point (°C)
Wt% Ethylene
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
0
5
10
15
20
Copolymer of Invention
Blends

Fig. 5

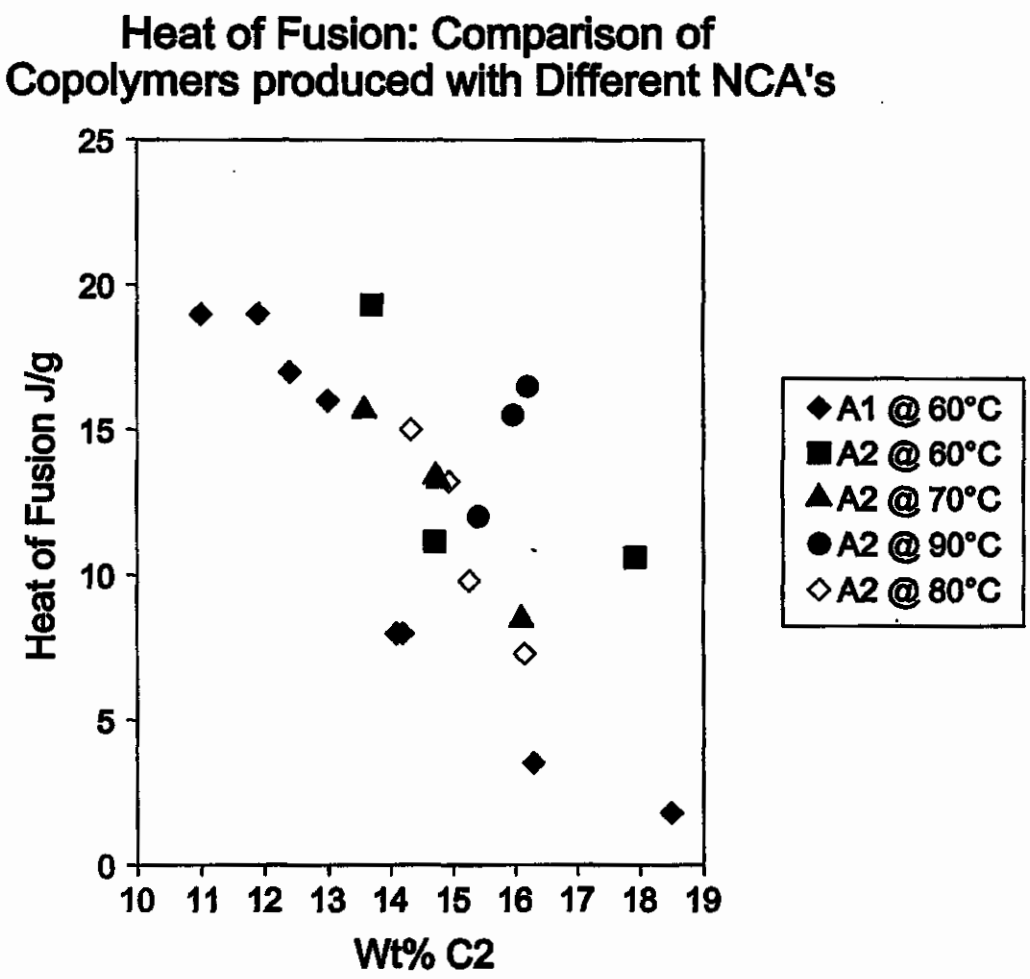
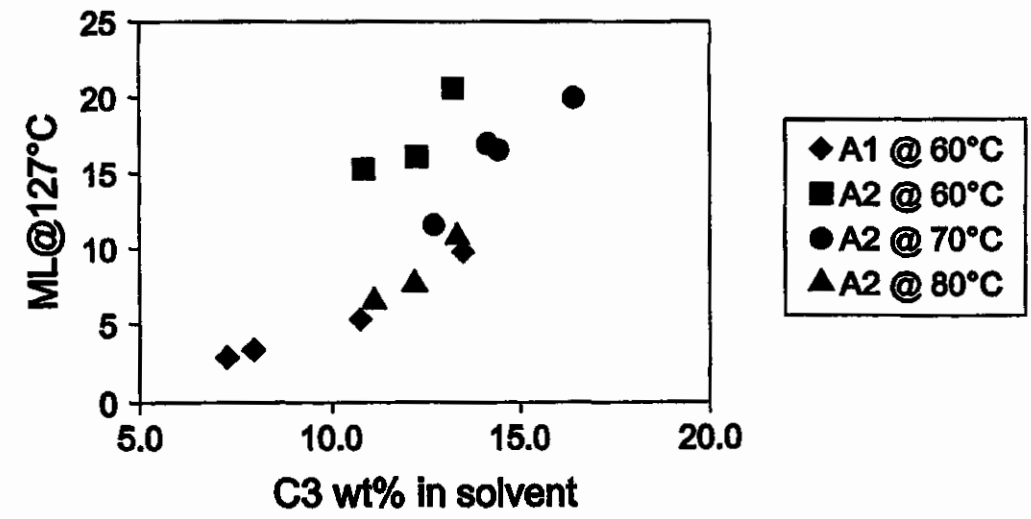

Heat of Fusion: Comparison of Copolymers produced with Different NCA's
Heat of Fusion J/g
25
20
15
10
5
0
10 11 12 13 14 15 16 17 18 19
Wt% C2
A1 @ 60°C
A2 @ 60°C
A2 @ 70°C
A2 @ 90°C
A2 @ 80°C

Fig. 6


ML@127°C
25
20
15
10
5
0
5.0 10.0 15.0 20.0
C3 wt% in solvent
A1 @ 60°C
A2 @ 60°C
A2 @ 70°C
A2 @ 80°C