

NEW SHEET

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$$CDC = \frac{\text{Comonomer Distribution Index}}{\text{Comonomer Distribution Shape Factor}} = \frac{\text{Comonomer Distribution Index}}{\text{Half Width/Stddev}} * 100$$

Equation 1

Fig. 1

$$\int_{-1}^{+1} w_r(T) dT = 1$$

Equation 2

Fig. 2

$$\int_{-1}^{T_{median}} w_r(T) dT = 0.5$$

Equation 3

Fig. 3

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$$\ln(1 - \text{comonomer content}) = -\frac{207.26}{273.12 + T} + 0.5533$$

$$R^2 = 0.997$$

Equation 4

Fig. 4

$$Stdev = \sqrt{\frac{1}{n} \sum_{i=1}^n (T - T_r)^2 \cdot w_r(T)}$$

Equation 5

Fig. 5

$$\% \text{ Crystallinity} = ((H_0)/(292 \text{ J/g})) \times 100$$

Equation 6

Fig. 6

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$$B_i' = (IV_{Sample,i} / IV_{Standard Reference,i})$$

Equation 7

Fig. 7

$$\left[\frac{IV_{Sample,i}}{IV_{Standard Reference,i}} \right]_{M_{ref}}^{-1.33} = \left[\left(1 + \frac{B_{n,i}}{T} \right)^{1/2} + \frac{4}{9} \frac{B_{n,i}}{K} \right]^{-1/2}$$

Equation 8

Fig. 8

$$LCB_f = \frac{\sum_{i=1}^I \left(\frac{B_{n,i}}{M_i / 14000} c_i \right)}{\sum c_i}$$

Equation 9

Fig. 9

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$$M_{rs} = \left(\frac{K_{rs}}{K_{rs}} \right)^{Y_{rs}^{m_{rs}}} \cdot M_{rs}^{m_{rs}^{Y_{rs}^{m_{rs}}}}$$

Equation 10

Fig. 10

$$[\eta]_{rs} = K_{rs} \cdot M_{rs}^{a_{rs}} / M_{rs}$$

Equation 11

Fig. 11

$$M_w = \sum_i w_i M_i = \sum_i \left(\frac{C_i}{\sum_i C_i} \right) M_i = \frac{\sum_i C_i M_i}{\sum_i C_i} = \frac{\sum_i LS_i}{\sum_i C_i} = \frac{LS \text{ Area}}{Conc. \text{ Area}}$$

Equation 12

Fig. 12

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$$IV = [\eta] = \sum_i w_i IV_i = \sum_i \left(\frac{C_i}{\sum_i C_i} \right) IV_i = \frac{\sum_i C_i IV_i}{\sum_i C_i} = \frac{\sum_i DP_i}{\sum_i C_i} = \frac{DP \text{ Area}}{Conc. \text{ Area}}$$

Equation 13

Fig. 13

$$Mw_{cc} = \sum_i \left(\frac{C_i}{\sum_i C_i} \right) M_i = \sum_i w_i M_i$$

Equation 14

Fig. 14

$$[\eta]_{cc} = \sum_i \left(\frac{C_i}{\sum_i C_i} \right) IV_i = \sum_i w_i IV_i$$

Equation 15

Fig. 15

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$$gpcBR = \left[\left(\frac{[\eta]_{cc}}{[\eta]} \right) \left(\frac{M_w}{M_{w,cc}} \right)^{\alpha_w} - 1 \right]$$

Equation 16

Fig. 16

$$\text{Resolution} = \frac{\text{Peak temperature of NIST 1475a} - \text{Peak Temperature of Hexacosane}}{\text{Half - height Width of NIST 1475a} + \text{Half - height Width of Hexacosane}}$$

Equation 17

Fig. 17

$$ZSVR = \frac{\eta_{sp}}{\eta_{OL}} = \frac{\eta_{sp}}{2.29 \times 10^{-15} M_w^{1.65} \text{ gpc}}$$

Equation 18

Fig. 18

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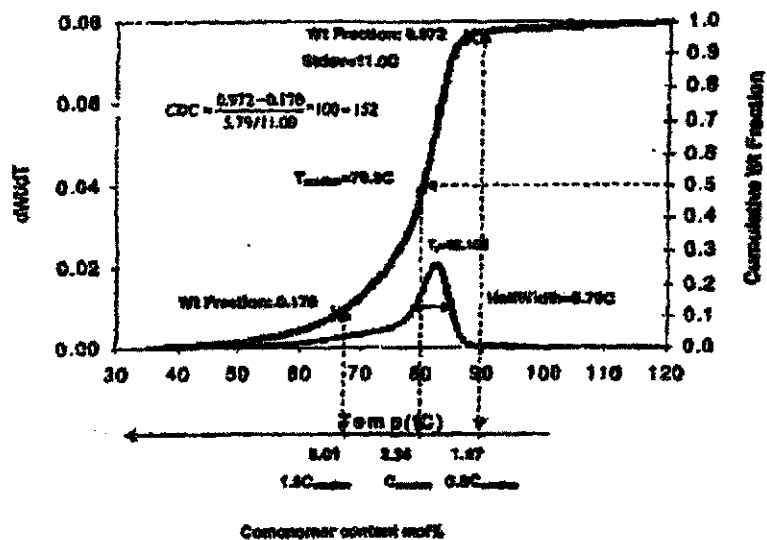


Figure 19

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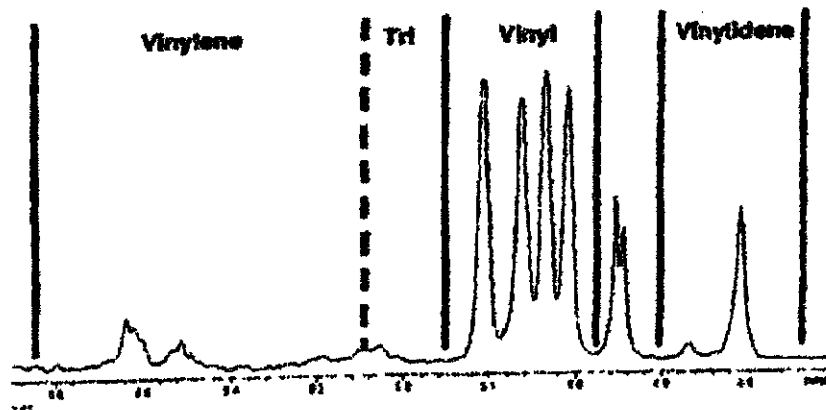


Figure 20

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```

d1prf0_x3
procol relations<lenmr>
include <Amoco.incl>

"d12=20m"
"d11=du"

1 20
d12 p121-f2
S 10m
d13
d12 p19-f1
d1 curf1 ph29 curf2 ph29
d11 dorf2 dorf2
d12 p11-f1
p1 ph1
gom3 ph22
30m mc 10 to 2 60(m)
exit

ph1=0 1 2 0 1 3 3 1
ph29=0
ph21=0 1 2 0 1 3 3 1
    
```

Figure 21

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Group	Structure	Number
Vinylene		Vinylene
		
		Vinylene
		Vinylene
Tetraene		
		Tetraene
		
		
Vinyl		Vinyl
		Vinyl
Vinylene		Vinylene
		Vinylene
		Vinylene

Figure 22

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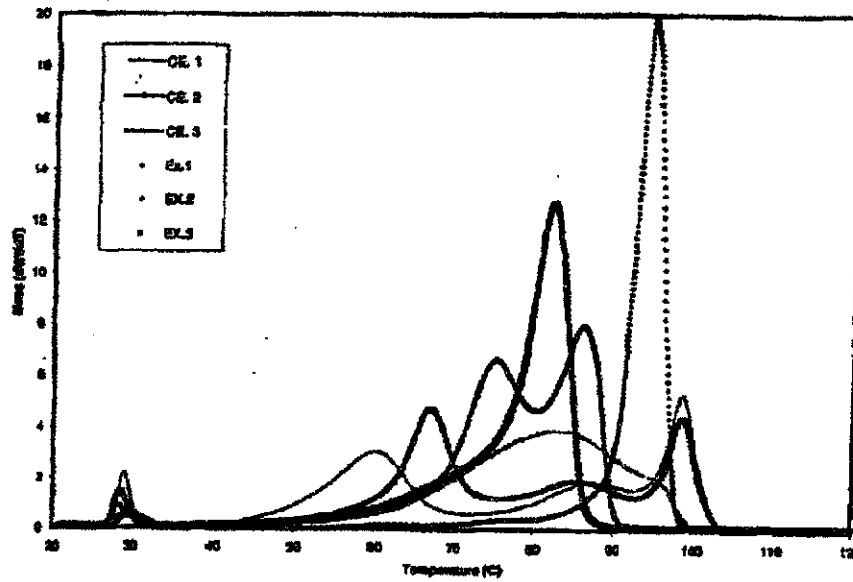


Figure 23

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