

NEW SHEET

1 of 11

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

Equation 1

Fig. 1

$$\int_{35}^{100} w_T(T) dT = 1$$

Equation 2

Fig. 2

$$\int_{35}^{T_{median}} w_T(T) dT = 0.5$$

Equation 3

Fig. 3

AMENDED SHEET

NEW SHEET

2 of 11

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

$$R^2 = 0.997$$

Equation 4

Fig. 4

$$Stdev = \sqrt{\sum_{i=1}^{150} (T_i - T_p)^2 \cdot w_r(T)}$$

Equation 5

Fig. 5

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

Equation 6

Fig. 6

AMENDED SHEET

NEW SHEET

3 of 11

$$g_i' = (IV_{\text{Sample},i} / IV_{\text{linear reference},i})$$

Equation 7

Fig. 7

$$\left[\frac{IV_{\text{Sample},i}}{IV_{\text{linear reference},i}} \right]_{M_{\text{ref}}}^{1.33} = \left[\left(1 + \frac{B_{n,i}}{7} \right)^{1/2} + \frac{4}{9} \frac{B_{n,i}}{\pi} \right]^{-1/2}$$

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

AMENDED SHEET

NEW SHEET

4 of 11

$$M_{rs} = \left(\frac{K_{rs}}{K_{rs'}} \right)^{1/n_{rs'}} \cdot M_{rs}^{n_{rs'}/n_{rs}}$$

Equation 10

Fig. 10

$$[\eta]_{rs} = K_{rs} \cdot M_{rs}^{a+1} / M_{rs}$$

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

AMENDED SHEET

NEW SHEET

5 of 11

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

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

AMENDED SHEET

NEW SHEET

6 of 11

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

Equation 16

Fig. 16

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

Equation 17

Fig. 17

$$ZSVR = \frac{\eta_{0B}}{\eta_{0L}} = \frac{\eta_{0B}}{2.29 \times 10^{-13} M_w^{3.65} \text{ gpc}}$$

Equation 18

Fig. 18

AMENDED SHEET

NEW SHEET

7 of 11

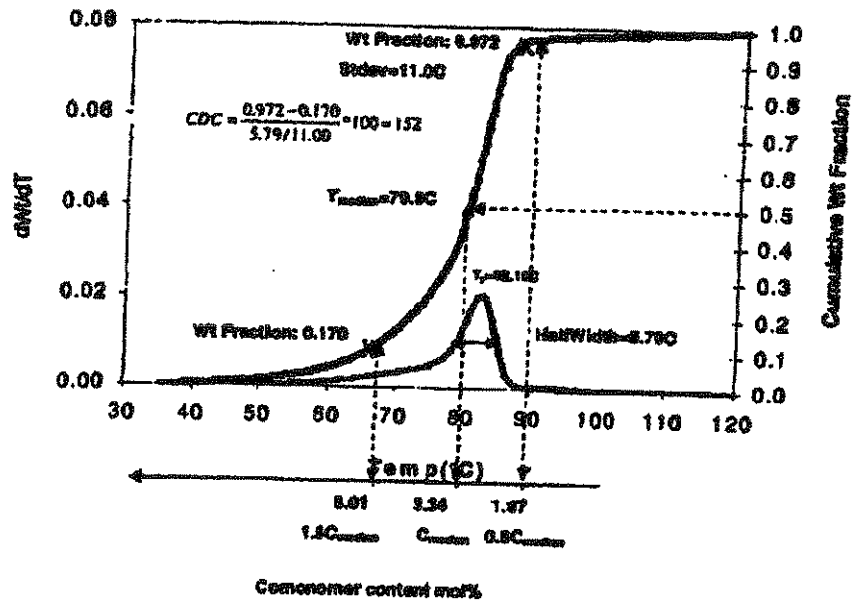


Figure 19

AMENDED SHEET

NEW SHEET

8 of 11

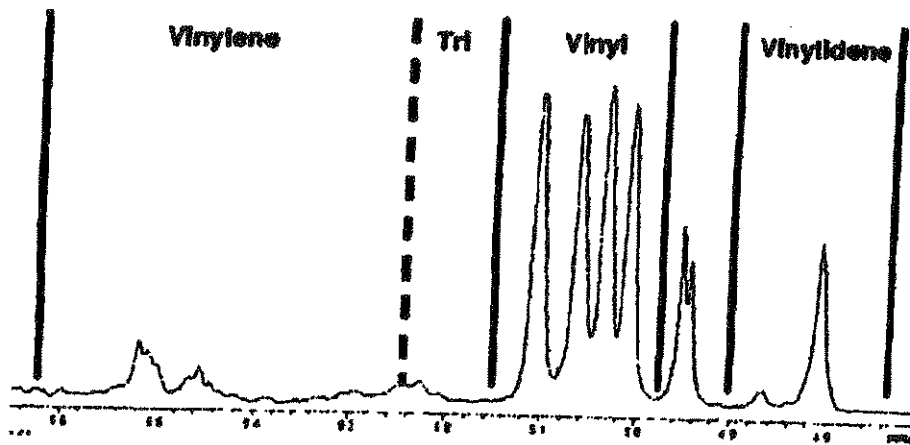


Figure 20

AMENDED SHEET

NEW SHEET

9 of 11

```

;lc1prf3_xz
prosol relations=<lenarr>
#include <Avancee.incl>

"d12=30m"
"d11=4u"

1 xz
d12 pi21:f2
2 30m
d12
d12 pi2:f2
d1 cu:f1 ph29 cu:f2 ph29
d11 do:f1 do:f2
d12 pi1:f1
pi ph1
go=3 ph31
30m rec 10 to 2 FO(xd)
exit

ph1=0 2 2 0 1 3 3 1
ph29=0
ph31=0 2 2 0 1 3 3 1

```

Figure 21

AMENDED SHEET

NEW SHEET

10 of 11

Group	Structure	Notation
Vinylene		Vinylene
		Vinylene
		Vinylene
		Vinylene
		Vinylene
Trisubstituted ethylenes		Trisubstituted
		Trisubstituted
		Trisubstituted
		Trisubstituted
		Trisubstituted
Vinyl		Vinyl
		Vinyl
		Vinyl
Vinylene		Vinylene
		Vinylene
		Vinylene

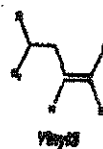


Figure 22

AMENDED SHEET

NEW SHEET

11 of 11

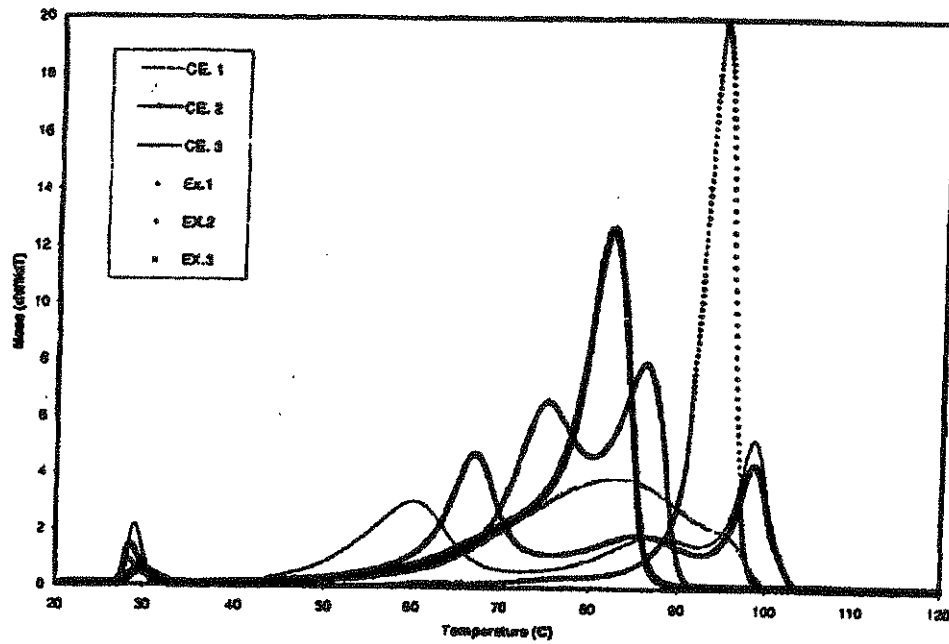


Figure 23

AMENDED SHEET