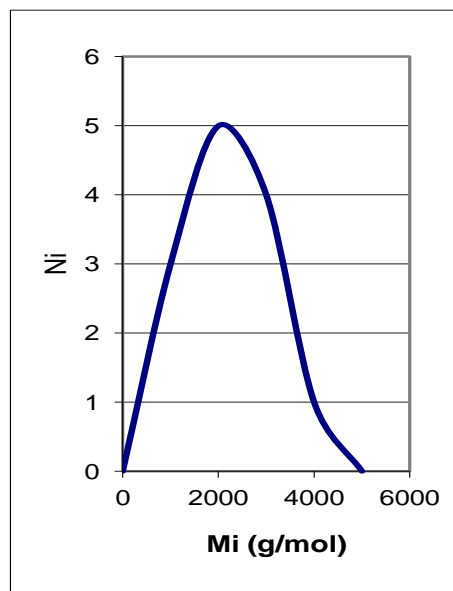
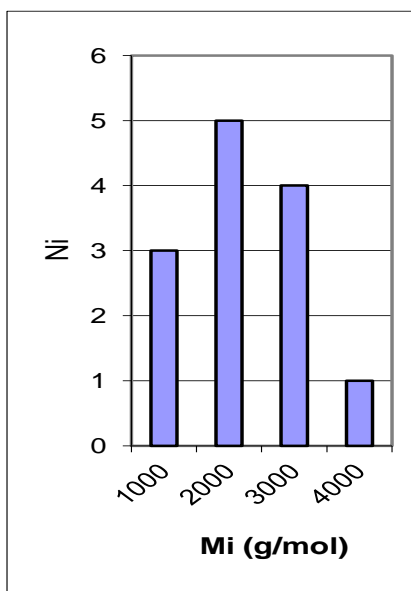
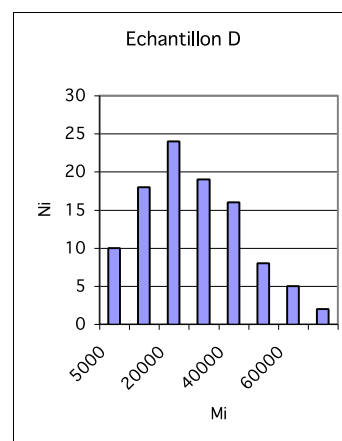
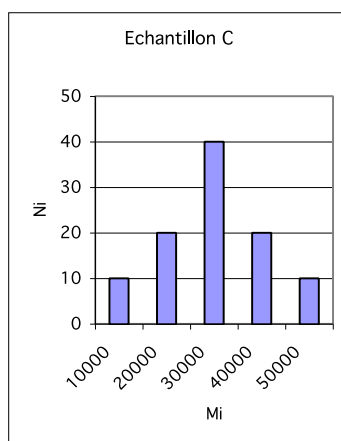
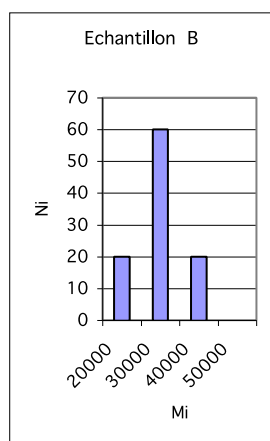
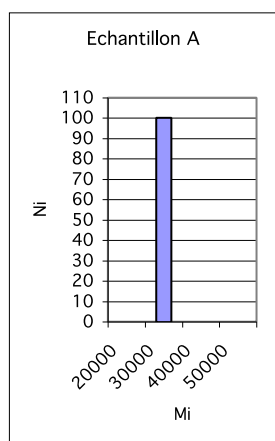


LES MASSES MOLAIRES MOYENNES DES POLYMÈRES ET LEUR DISTRIBUTION

Représentation graphique des distributions des masses molaires



N_i (ou N_i/N) = f (M_i) courbe numérale



$$\overline{M}_n = 30.000 \text{ g/mol}$$

$$\overline{M}_n = 30.000 \text{ g/mol}$$

$$\overline{M}_n = 30.000 \text{ g/mol}$$

$$\overline{M}_n = 3.0000 \text{ g/mol}$$

$$\overline{M}_w = 30.000 \text{ g/mol}$$

$$\overline{M}_w = 31.330 \text{ g/mol}$$

$$\overline{M}_w = 34.000 \text{ g/mol}$$

$$\overline{M}_w = 37.000 \text{ g/mol}$$

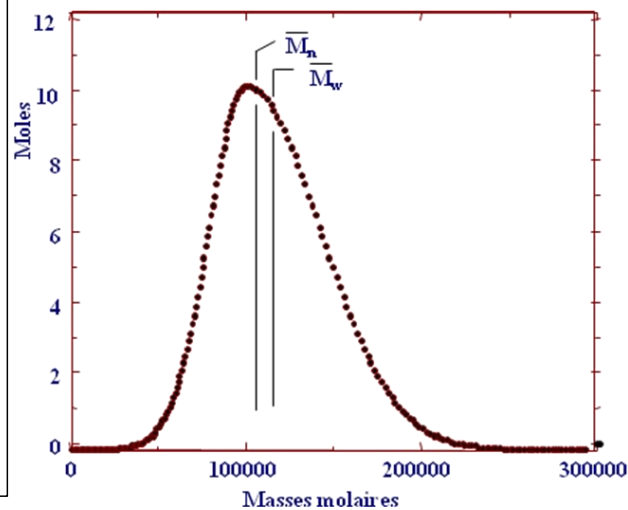
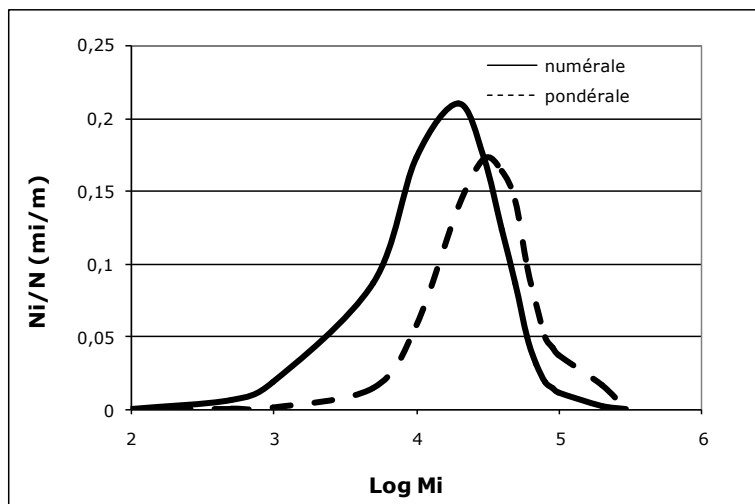
$$D = 1$$

$$D = 1,04$$

$$D = 1,13$$

$$D = 1,23$$

COMPARAISON : Courbe pondérale ($W_i/\sum W_i = f(M_i)$) et Courbe numérale ($N_i/\sum N_i = f(M_i)$)



Masses molaires moyennes en nombre	Masses molaires moyennes en poids
$\overline{M}_n = \sum x_i M_i$	$\overline{M}_w = \sum \omega_i M_i$
$\overline{M}_n = \frac{\sum N_i M_i}{\sum N_i}$	$\overline{M}_w = \frac{\sum N_i M_i^2}{\sum N_i M_i}$
$\overline{M}_n = \overline{X}_n \cdot M_0$	$\overline{M}_w = \overline{X}_w \cdot M_0$
$\overline{D} = \frac{\overline{M}_w}{\overline{M}_n} = \frac{\overline{X}_w}{\overline{X}_n}$	$\overline{X}_n = \sum i \cdot x_i$ $\overline{X}_w = \sum i \cdot \omega_i$