ng

of polyethylene samples
In most cases it is only
inear polyethylene was
presented. Along with
nsity, morphology, and
ithout this information, it
ers, since under the com-
neasuring quite different
lded-chain crystals will
lse data. Heating rates
ast to convert metastable
minimum of reorganiza-
e perfect extended-chain

linear polyethylene are
aphical points from many
lated. The graphical or
" or "n," respectively, in
re data for each reference
$+ BP + CP^2$. Exami-
rvature (C) of the melting
perimental difficulties as
spread. Apart from our
erential thermal analysis;
neasurements. In all the
e decreases in slope with
curves bend toward the P
s and nonpolymeric ma-
in compressibility with

g curve near atmospheric
ion. One procedure is to
-squares expression and
own in column 7 of Table
low pressures. A better
measured at atmospheric
asured pressure. Slopes
er method are listed in
ed values of the slopes of
calculated by the least

elting, it is only necessary
yron expression. In the

TABLE IV
Least Squares Analysis of Melting Data $T_m = A + BP + CP^2$

Sample or researcher, reference and format	A	$B \times 10^2$	$C \times 10^6$	T_m, °C		dT_m/dP (least squares)	dT_m/dP
				At 2 kb	At 5 kb		
Extended chain, this paper (n)	143.7	2.673	−1.475	191.3	240.4	26.7	35.2
Folded-chain, this paper (n)	134.9	1.963	−0.9576	170.6	209.4	19.6	22.1
Folded-chain copolymer, this paper (n)	128.3	1.994	−0.9908	164.2	203.2	19.9	—
Baer and Kardos[15] (g)	136.8	3.328	−3.708	188.6	210.5	33.3	39
Baltenas and Igonin[16] (n)	133.3	2.765	−1.598	182.2	231.5	27.6	—
Hellwegé et al.[17] (g)	132.5	3.372	−4.028	183.8	200.4	33.7	—
Karasz and Jones[18] (g)	135.8	3.141	−1.935	190.9	244.4	31.4	28.0
Matsuoka[19] (g)	137.1	2.988	−2.210	188.1	231.3	29.9	—
Osugi and Hara[29] (g)	147.1	1.615	−0.2672	178.3	221.2	16.2	25