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

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

measured at atmospheric

low pressures.

A better

asured pressure.

Slopes

yron expression.

In the

elting, it is only necessary

ed values of the slopes of er method are listed in

calculated by the least

own in column 7 of Table ion. One procedure is to squares expression and g curve near atmospheric

TABLE IV

Sample or researcher, reference and format	A	$B \times 10^2$	$C \times 10^6$	T_m , °C		dT_m/dP	
				At 2 kb	At 5 kb	(least squares)	dT_m/dP
Extended chain, this					212.1	00 #	25 0
paper (n)	143.7	2.673	-1.475	191.3	240.4	26.7	35.2
Folded-chain, this						10.0	00.1
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	
Hellwege 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