Corrections

concerning the paper

Dielectric α - and β -Absorptions in Some Amorphous and Semi-Crystalline Polymers

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Kolloid-Z. u. Z. Polymere 183, 15-37 (1962)

With respect to the long mailing distance between Japan and Germany and to the speeded publication of this article because of its late receipt at the printer's as well, there have been printed some mistakes which are now to be corrected as follows:

The *present address* of Dr. K. Yamafuji is: Department of Electronics, Faculty of Engineering, Kyushu University (Japan).

Page 15, left column, 14th line: please, read "it would be ..." instead of "is would be...";

page 15, right column, 11th line: please, read "Since α -absorption..." instead of "Since α -absorptions...";

page 16, left column, 2nd paragraph, 8th line: please, read (2) instead of (5);

page 16, right column, 16th line: please, read "motional unit" instead of "motion unit";

page 19, right column, 1st line: please, *exmit* the word "an";

page 21, right column, 1st line of formula [3.19]: please insert $\frac{2}{\pi}$ between the "=" and the brackets;

page 21, right column, formula [3.20] is to be read

$$\text{correctly: } "K(\lambda) = \int_0^1 [1 - x^2] (1 - \lambda^2 x^2)^{-1/2} dx";$$

page 23, right column, last line of second paragraph: please, read " $T \gg T_g$ " instead of " $T \ll T_g$ ";

page 24, left column, formula 3.31 is to be read correctly: " $\langle \tau_a \rangle = 1/(2\pi\omega_m^a) = \dots$ ";

page 25, right column, 3rd line: please, read "chains are staying ..." instead of "chains are steying" ...;

page 25, right column, formula 3.37 is to be read correctly:

$$"F(s) = (1/2\pi) \sin(\beta\pi) [\cosh(\beta s) + \cos(\beta\pi)]^{-1}; \\ s = \ln \tau / \langle \tau \rangle";$$

page 26, left column, paragraph (b), 5th line: read correctly " $0.6 \sim 0.8$ ";

page 26, left column, paragraph (e), last line: insert after "... frequency side" - "for the amorphous sample";

page 27, left column, 1st line: insert after "... absorption curve" - "for the amorphous polymer";

page 27, left column, footnote no. 5: please add the citation: "Y. Ishida, M. Matsuo, and K. Yamafuji, Kolloid-Z. u. Z. Polymere 180, 108 (1962)";

page 28, left column, fig. 4, please, *exmit* the inscription $\sim 17 \text{ kcal/mol}$;

page 28, right column, formula [3.48], second line is to be read correctly:

$$" \times [(1 + i\omega\tau_0 x)(1 + i\omega\tau_0 x^{-1})]^{-1/2}";$$

page 28, right column: the lines No. 28 (beginning "We can easily ...") till No. 40 (ending "data") are to be *exmitted*;

page 28, right column, 50th line, please *add* the following footnote no. 6: "Y. Ishida, K. Yamafuji, H. Ito and M. Takayanagi, Kolloid-Z. u. Z. Polymere (in press)";

page 29, left column, formula following the numbered formula [4.4] is to be read *correctly*:

$$"Q^\beta = (N_0 + 2)^{-1} \sum_{l=0}^{N_0+1} Q_l^\beta";$$

page 29, right column, the formula in the 12th line is to be read *correctly*: " $\varepsilon_s \sim \langle \varepsilon_0 \rangle_\beta$ ";

page 30, left column, formula [4.13] is to be read *correctly*: " $[\varepsilon_0 - \varepsilon_\infty]_\beta \approx n_\beta (4\pi/3) (E_r/E) \dots$ ";

page 30, left column, 30th line: please read "values of G " instead of " G_β ";

page 32, right column, please, *insert table 7*:

The observed values of $\bar{\beta}$ and $\bar{g}$ for the dielectric β -absorptions in various polymers

Polymer	PVCl	PVBr	PEI	PET	PcFE	POM
$\bar{\beta}$	0.3	0.25	0.3	0.3	0.3	0.2
$\bar{g}$	0.2	0.15	0.2	0.2	0.2	0.1

page 32, right column, last line, please, *add the following footnote No. 7*: "Since we have little information about the detailed form of $\Omega_\beta(\ln \tau_\beta)$, we shall choose $F(S)$ in eq. [3.37] as $\Omega_\beta(\ln T_\beta)$ ";

page 33, left column, please *eliminate the main part of the first paragraph* beginning with "Since the form ...", and ending with "not so unreasonable values.";

page 33, left column: after elimination the following text is to be read *correctly*:

"With the aid of eqs. [4.8] and [4.31], x^2 is estimated as about 300. In fig. 6, the theoretical absorption curve eq. [4.29] in which the β of $\Omega_\beta(\ln \tau_\beta)$ is about 0.28 and $x^2 = 300$ is compared with the observed data of the β -absorption curve in polyethylene terephthalate ($-44.5^\circ\text{C} \approx -12.0^\circ\text{C}$) whose degree of crystallinity is about 0.5. The value of β of $\Omega_\beta(\ln \tau_\beta)$ is determined such that the lower frequency ...";

page 33, left column, legend to fig. 6: read " $\bar{\beta}$ " instead of "the half width" and "0.28" instead of "12 ($\approx 17 \text{ kcal/mol}$)";

page 34, right column, Appendix, formula [A.1], 2nd line: please, read " $l+1$ " instead of " $l-1$ ", also in formula [A.3], 3rd line " $\varphi_{q,l+1}$ " instead of " $\varphi_{q+1,l}$ ";

page 35, right column, formula [A.15], last line: please, read always " U " instead of " $\bar{v}$ ", also in formula [A.17] and [A.19] as well;

page 35, right column, formula [A.19], as well as in the following 6th text line, please read "AV." instead of "AV̄.";

page 36, left column, 5th line: please read " $m \geq 2$ " instead of " $m \cong 2$ ".

page 37, References No. 2: *add* „Kolloid-Z. u. Z. Polymere 177, 97 (1961)“, and reference No. 15 should be read *completely* „Kolloid-Z. u. Z. Polymere 175, 27 (1961)“.