CORRECTIONS

Marina Lamberti, Daniela Pappalardo, Adolfo Zambelli, and Claudio Pellecchia*: Syndiospecific Polymerization of Propene Promoted by Bis(salicylaldiminato)titanium Catalysts: Regiochemistry of Monomer Insertion and Polymerization Mechanism. Volume 35, Number 3, January 29, 2002, pp 658–663.

In the above paper, we reported the ¹³C NMR spectrum of a copolymer of propene with a trace amount of 1-13C-ethene, inadvertently inverting the assignments of the resonances diagnostic of the m-S_{$\alpha\beta$} and r-S_{$\alpha\beta$} enriched carbons (p 661). In fact, as reported in the literature,1 the lower field multiplet (between 33 and 34 ppm from hexamethydisiloxane) is due to the $S_{\alpha\beta}$ carbons flanking an r propene diad (stereostructure $\hat{\mathbf{a}}$ in Scheme 1), while the higher field multiplet (between 32 and 33 ppm) is due to the $S_{\alpha\beta}$ carbons flanking either an *m* propene diad (stereostructure **b** in Scheme 1) or, possibly, a regioirregular propene diad (stereostructure c in Scheme 1). Reexamination of the spectrum on the basis of the correct assignments provides additional mechanistic information, considering that (i) the fraction of the r-S_{$\alpha\beta$} enriched carbons is unexpectedly low (45%) as is (ii) the fraction of r-S $_{\alpha\gamma}$ enriched carbons (55%), if compared to the *r* diad content inside the polypropylene blocks (98%). Since the regiochemistry of propagation seems to be essentially secondary, it is reasonable that (a) ¹³C-enriched ethylene mostly inserts after a secondary polypropylene block (see Scheme 2) and is followed either by a primary propene insertion (generating $S_{\alpha\beta}$ enriched carbons) or by a secondary propene insertion (generating $S_{\alpha\gamma}$ and $S_{\beta\beta}$ enriched carbons) and that (b) primary propene insertion seldom results in the formation of r stereochemical diads (cf. point i above). The

implications of the above results on the polymerization mechanism and the possible relationship between regioand stereospecificity (as previously proposed for V catalysts²) will be addressed in a forthcoming paper.

Scheme 1

-CH2CH*CH2*CH2CHCH2CHCH2--

-cHCH2 CH2 CH2CHCH2CHCH2--

ĊHa

 $S_{\beta\beta} S_{\alpha\gamma}$

References and Notes

Ti--*CH2*CH2CHCH2CHCH2-

- Zambelli, A.; Bajo, G.; Rigamonti, E. Makromol. Chem. 1978, 179, 1249.
- (2) Zambelli, A.; Tosi, C. Adv. Polym. Sci. 1974, 15, 31.

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