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0521421950 - The Vibrational Spectroscopy of Polymers

D. I. Bower and W. F. Maddams

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Index of spectra illustrated

copolymer of

ethylene and propylene

IR fig 6.2 232; various compositions, CH_2 rocking region, 660–900 cm^{-1}

ethylene and vinyl acetate

IR fig 6.1 230; $\nu(\text{C=O})$ region, 1690–1770 cm^{-1} , resolved into triadsnormal paraffin $\text{C}_{12}\text{H}_{26}$ IR fig 5.2 170; 700–1500 cm^{-1} , sample at –196 °C

Novolak resin IM184

IR fig 5.17 212; cast film, 400–3800 cm^{-1}

Nylon 6,6

IR fig 5.18 213; cast film, 400–3700 cm^{-1}

polybutadiene

IR fig 1.8 14; 1,2-polybutadiene, 650–3500 cm^{-1} R fig 5.19c 220; 1600–1700 cm^{-1}

polyethylene

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poly(vinylidene chloride)

IR and R fig 5.6 183; single crystals and quenched sample, 50–3300 cm⁻¹

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C_n	54, 62–3, 65–6, 88, 95–7, 127, 151	D_9	271–3
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