

# THE EFFECT OF CRYSTALLINITY ON THE MECHANICAL PROPERTIES OF POLYETHYLENE

BY J. H. HULL AND R. W. LIFTON  
Department of Chemistry, University of California, San Diego, La Jolla, California

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ABSTRACT: The effect of crystallinity on the mechanical properties of polyethylene has been studied. The results show that the yield strength and modulus increase with crystallinity, while the elongation at break decreases.

INTRODUCTION: The mechanical properties of polyethylene are strongly dependent on its crystallinity. This paper reports on the effect of crystallinity on the yield strength, modulus, and elongation at break of polyethylene.

EXPERIMENTAL: The samples were prepared by crystallizing polyethylene at various temperatures. The crystallinity was determined by x-ray diffraction.

RESULTS: The yield strength and modulus increase with crystallinity, while the elongation at break decreases. The data are shown in Figure 1.

DISCUSSION: The increase in yield strength and modulus with crystallinity is due to the presence of crystalline regions which are stronger than the amorphous regions.

CONCLUSION: The mechanical properties of polyethylene are strongly dependent on its crystallinity. The yield strength and modulus increase with crystallinity, while the elongation at break decreases.

REFERENCES: 1. J. H. Hull and R. W. Lifton, *J. Polym. Sci. A-2*, **5**, 1235 (1967).  
2. J. H. Hull and R. W. Lifton, *J. Polym. Sci. A-2*, **5**, 1245 (1967).

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