

Polyolefin Fibres (Second Edition)  
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Chapter 13: Improving wear resistance of polyolefins

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**Abstract:**

This chapter discusses the strategies employed in enhancing the wear performance of polyethylene (PE) and polypropylene (PP). A brief overview of the polyolefins, their structure, and tribological characteristics and applications is presented. Wear mechanism, characterization, and techniques in wear enhancement in PE and PP are also reviewed. A discussion of these techniques in the context of test conditions, influence of the external parameters (sliding velocity, applied load, test duration, etc.) is provided. Finally, some conclusions on the state of research on wear resistance in polyolefins are reported.