

# RECENT DEVELOPMENTS WITH TIRE CORDS AND CORD-TO-RUBBER BONDING

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## PART I. PHYSICAL PROPERTIES OF TIRE CORDS

### 1. INTRODUCTION

The first pneumatic tire was made in 1888 by J. B. Dunlop with Irish flax as reinforcing material. This fiber was one of the strongest at that time. It was gradually replaced by cotton since Irish flax was expensive. Cotton tire fabrics in the early stages, about 1910, were plain fabrics. As requirements imposed by the severity of tire operating conditions increased, these fabrics were gradually replaced by the

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