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Experimental Study on Low Frequency Dynamic Characteristics of Racing Tire

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Abstract：The effects of load，inflation pressure，rolling speed and exciting frequency on the low frequency dynamic characteristics of racing tires were studied. The results showed that under non–rolling condition，the dynamic stiffness increased with the increasing of radial load and inflation pressure，and the damping coefficient increased with the increasing of radial load and decreased with the increasing of inflation pressure. Under rolling condition，the dynamic stiffness and damping coefficient increased with the increasing of inflation pressure，and load had little effect on the dynamic stiffness and damping coefficient. With the increasing of rolling speed，the dynamic stiffness increased，and the damping coefficient was basically unchanged. As the exciting frequency increased，the damping coefficient increased，and the dynamic stiffness was basically unchanged. The research results of low–frequency dynamic characteristics of racing tires were mostly consistent with the reports in the published literatures.

Key words：racing tire；dynamic stiffness；damping coefficient；load；inflation pressure

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