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Application of Green Environment-friendly Plasticizer in Tread Compound Formula of Steel-belted Tire

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Abstract: The application of green environment-friendly plasticizer FNP-60A in the tread compound formula of steel-belted tires was studied. The results showed that by adding green environment-friendly plasticizer FNP-60A, the Mooney viscosity of the compound decreased, and the Mooney viscosity reduction effect was close to that of zinc fatty acid and slightly better than that of similar foreign products. It had little effect on the vulcanization characteristics, scorch time and dynamic mechanical properties of the compound, similar to that of zinc fatty acid and foreign products. However, the elongation at break and flexural resistance of the compound with plasticizer FNP-60A were significantly improved. In addition, the use of green environment-friendly plasticizer FNP-60A could reduce the zinc content in the compound, which was beneficial to environment protection.

Key words: plasticizer; steel-belted tire; tread compound; environment protection; flexural resistance

轮胎行业迎来新一轮景气周期

近日, 轮胎上市公司2023年上半年业绩预告纷纷出炉。山东玲珑轮胎股份有限公司(简称玲珑)等10家轮胎上市公司中, 除赛轮集团股份有限公司、青岛森麒麟轮胎股份有限公司、江苏通用科技股份有限公司3家尚未披露业绩预告外, 已经披露业绩预告的上市公司中, 仅上海华谊集团股份有限公司和青岛双星轮胎工业有限公司业绩预亏, 其余5家公司业绩全部预增。

玲珑预计上半年归属于上市公司股东的净利润5.2亿~6.0亿元, 同比增长3.7~4.45倍; 风神轮胎股份有限公司预计上半年归属于上市公司股东的净利润1.5亿~1.8亿元, 同比增长12~15倍; 佳通轮胎股份有限公司预计上半年归属于母公

司所有者的净利润约0.67亿元, 同比增长约5倍; 三角轮胎股份有限公司预计上半年归属于母公司所有者的净利润5.95亿~6.15亿元, 同比增长1.7~1.8倍; 贵州轮胎股份有限公司预计上半年归属于上市公司股东的净利润3亿~3.65亿元, 同比增长88.58%~127.91%。

多家企业财报给出了盈利增长的原因, 主要受益于原材料价格下降, 公司的毛利率得到了改善。叠加海运运费下跌和海外订单需求旺盛, 综合作用下轮胎企业的利润空间扩大。

展望下半年, 随着汽车轮胎产业链修复, 行业产能整合优化加速落地, 2023年轮胎行业有望开启新一轮上行周期。

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