

表5 成品轮胎物理性能

项 目	试验轮胎	生产轮胎	GB/T 2981—2001
胎侧胶性能			
邵尔A型硬度/度	63	64	
拉伸强度/MPa	17.3	17.2	
拉断伸长率/%	520	530	
阿克隆磨耗量/cm <sup>3</sup>	0.21	0.23	
粘合强度/(kN·m <sup>-1</sup> )			
胎面胶-缓冲层	9.3	9.1	≥7.8
缓冲层间	≥8.5	≥8.7	≥6.8
缓冲层-帘布层	8.1	8.2	≥5.8
帘布层间	≥7.9	≥7.6	≥5.3
胎侧胶-帘布层	7.6	7.2	≥5.3

### 3 结论

(1) 炭黑G660替代炭黑N660用于工业车辆轮胎胎侧胶中, 胶料的门尼粘度略低, 300%定伸应力、拉伸强度和撕裂强度相差不大, 生热较低, 耐屈挠性能较好。

(2) 采用炭黑G660胎侧胶的工业车辆轮胎物理性能和采用炭黑N660胎侧胶的工业车辆轮胎相当。

(3) 每千克炭黑G660胎侧胶价格比炭黑N660胎侧胶降低0.16元, 按我公司目前生产情况计算, 每年可以节省成本37万元。胎侧胶中用炭黑G660替代炭黑N660经济效益良好。

## Application of Carbon Black G660 in the Sidewall Compound of Industrial Vehicle Tire

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**Abstract:** In this study, carbon black G660 was applied in the sidewall compound of industrial vehicle tire. The results showed that, compared with carbon black N660 filled compound, the tensile modulus at 300% elongation, tensile strength and tear strength of G660 filled compound were similar, the elongation at break was larger, heat build-up was lower, and flex resistance was better. The processing property of the compound filled with G660 met the production requirements and the cost was reduced. The finished tire with G660 filled sidewall showed similar physical properties as that with N660 filled sidewall.

**Keywords:** carbon black G660; industrial vehicle tire; sidewall compound; flex resistance; heat build-up

### 信息·资讯

## 山西阳光华泰炭黑公司推出橡胶密封条用高纯炭黑

山西阳光华泰炭黑公司推出一种橡胶密封条用高纯炭黑HT5506。

炭黑HT5506的筛余物含量极低, 在胶料中的分散性、均匀性和稳定性较好, 可赋予橡胶

制品良好的外观光洁度, 尤其适用于汽车用橡胶密封条。目前, 炭黑HT5506经客户试用, 普遍反映良好。

卢迪