

Influence of Curing Conditions on Performance of Green Tire Tread Compounds

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Abstract: The influence of curing temperature, curing pressure and curing time on the chemical cross-linked network, physical properties, abrasion resistance and dynamic mechanical properties of NR tread compound of green tire was investigated. The results showed that, with the increase of curing temperature, the crosslinking density decreased, abrasion resistance and permanent deformation increased at first and then decreased, and compression fatigue temperature rise and loss factor ($\tan\delta$) at 60 °C increased. As the curing pressure increased, the crosslink density, modulus at given elongation, tensile strength and anti-crack growth resistance increased, and tear strength decreased. With the curing time extending, the crosslinking density and abrasion resistance increased at first and then decreased, tear strength and hardness decreased, and compression fatigue temperature rise and $\tan\delta$ at 60 °C increased.

Key words: tire; tread compound; curing condition; crosslinking density; abrasion resistance; tear strength

飞劲WildPeak成为2017 Jeep Trailhawk原配胎

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美国《现代轮胎经销商》(www.moderntiredealer.com) 2016年12月1日报道:

飞劲轮胎公司WildPeak H/T01A 2轮胎(见图1)成为2017吉普Renegade Trailhawk的原配胎。



图1 WildPeak H/T01A 2轮胎

在2016年11月18—27日洛杉矶车展上展出的吉普Renegade Trailhawk和Desert Hawk均装配了WildPeak H/T01A 2轮胎。

飞劲轮胎市场总监Rick Brennan说:“我们的

WildPeak H/T01A 2轮胎与吉普Renegade配对是有益于车辆驾驶体验的完美结合。我们相信,这种结盟将建立一个成功的合作伙伴关系,有助于我们两家成为业界领导品牌。”

规格为215/65R17的WildPeak H/T01A 2轮胎的特征为:特殊的胎肩优化设计以适应吉普Renegade Trailhawk。飞劲声称,轮胎的设计目的是为了提供稳定性和舒适性。

(赵敏摘译 吴秀兰校)

普利司通搏天族新品上市

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普利司通(中国)投资有限公司宣布,旗下POTENZA搏天族品牌最新轮胎商品Adrenalin RE003于2016年12月中旬正式上市。

新上市的产品定位为高性能街道运动轮胎。新产品采用了宽阔的中央花纹块设计,有效提升了轮胎刚性,增强轮胎侧向支撑力。胎面花纹主体由3条主沟槽结合半条运动型沟槽构成,提供了出色的轮胎整体刚性,加速以及弯道能力也会随之提升。同时,采用含硅化合物的橡胶配方有效提升了湿路性能。

(摘自《中国化工报》,2017-01-12)