

参考文献:

- [1] 王婷,黄祥洪,陈宏,等. 丁基再生橡胶的制备及其在轮胎气密层中的应用[J]. 轮胎工业,2021,41(8):491-495.
- [2] 谢遂志,刘登祥,周鸣雷. 橡胶工业手册(修订版) 第一分册 生胶与骨架材料[M]. 北京:化学工业出版社,1989.
- [3] 孙志勇,马卫东,张鲲,等. 氯化丁基橡胶阻尼材料动态力学性能的影响因素研究[J]. 世界橡胶工业,2009,36(1):18-20.
- [4] 马舒文. 溴化丁基橡胶在胎面胶中的应用[J]. 世界橡胶工业,2004,31(4):3-10.
- [5] 王江乐,梁玉蓉,任绒艇,等. 有机粘土/丁基橡胶纳米复合材料的结构与性能[J]. 橡胶工业,2021,68(12):912-916.
- [6] 王世伟,尹兴昌,姚翔. 强威粉TNK在轮胎气密层胶中的应用[J]. 轮胎工业,2015,35(10):618-621.
- [7] 林浩,赵冬梅,程安仁,等. 纳米强威粉在轮胎气密层中的应用[C]. “确成杯”全国橡胶助剂生产和应用技术研讨会论文集. 北京:中国化工学会,全国橡胶工业信息中心,2011:250-253.
- [8] ETIKA K C, LIU L, HESS L A, et al. The influence of synergistic stabilization of carbon black and clay on the electrical and mechanical properties of epoxy composites[J]. Carbon, 2009, 47(13): 3128-3136.
- [9] MERABIA S, SOTTA P, LONG D R, et al. A microscopic model for the reinforcement and the nonlinear behavior of filled elastomers and thermoplastic elastomers (Payne and Mullins effects) [J]. Macromolecules,2008,41(21):8252-8266.
- [10] 李建. 天然橡胶混炼工艺及其流变和挤出行为的相关性[D]. 青岛:青岛科技大学,2018.

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Application of StronWi Powder TNK in Inner Liner Compound of Passenger Car Radial Tire

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Abstract: The application of nano clay StronWi powder TNK (referred to as TNK) in the inner liner compound of passenger car radial tire was studied. The results showed that by adding 5 phr TNK directly or using 20 phr TNK to replace 10 phr carbon black N660 in the inner liner compound, the processability and scorch safety of the compound were slightly improved, the curing speed was reduced, the physical properties of the vulcanizate were equivalent, the air tightness and flexural resistance were improved, the filler dispersion was improved and dimensional stability of the compound was better. The comprehensive property of TNK was better than that of competitive products in the market.

Key words: StronWi powder TNK; BIIR; passenger car radial tire; inner liner; air tightness; flexural resistance; filler dispersion

森麒麟推进全球化布局

日前,青岛森麒麟轮胎股份有限公司(简称森麒麟)发布公告,拟定增募资不超过40亿元。其中34.93亿元将用于西班牙年产1200万条高性能轿车和轻型载重子午线轮胎项目,5.07亿元用于补充流动资金。

同时,森麒麟发布拟以自筹资金2.97亿美元在摩洛哥投资建设年产600万条高性能轿车和轻型载重子午线轮胎项目的公告。该项目建设地点位于摩洛哥丹吉尔市,建设周期18个月,投产第1年产量为360万条,第2年即具备600万条产能。

项目建成后,正常运营年预计可实现营业收入2.1亿美元,利润总额5188万美元,总投资收益率17.48%。

森麒麟表示,近年来公司总体上处于产品供不应求状态,产能不足已成为制约其进一步发展的重要因素。由于欧美市场是其核心市场,而本次投资所在地摩洛哥是非洲唯一与美国签署自由贸易协定的国家,轮胎产品出口美国享受零关税。同时摩洛哥政治、经济环境稳定,外贸政策良好,投资成本较低。

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