

表1 成品轮胎的物理性能

项 目	实测值	企业标准
邵尔A型硬度/度	62	≥ 55
拉伸强度/MPa	19.0	≥ 16.5
拉断伸长率/%	483	≥ 450
阿克隆磨耗量/cm ³	0.1	≤ 0.4
粘合强度/(kN·m ⁻¹)		
胎面-缓冲层	9.0	≥ 7.8
缓冲层-胎体帘布层	9.1	≥ 7.0
胎体帘布层间	7.8	≥ 5.5

从表1可以看出,成品轮胎的物理性能良好,符合企业标准要求。

5 结语

18.4—38 12PR水田农业轮胎成品外观质量优良,充气外缘尺寸和物理性能均符合相应设计和企业标准要求。该产品的开发满足了市场需求,为企业创造了良好的经济效益和社会效益。

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Design of 18.4—38 12PR Paddy Field Agricultural Tire

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Abstract: The design of 18.4—38 12PR paddy field agricultural tire was described. In the structure design, the following parameters were taken: overall diameter 1 855 mm, cross-sectional width 448 mm, width of running surface 480 mm, height of running surface 31 mm, bead diameter at rim seat 970 mm, bead width at rim seat 406.5 mm, maximum width position of cross-section (H_1/H_2) 0.583 2, pattern depth 90 mm, block/total ratio 18.78%, and pattern circular pitches 19. In the construction design, the following processes were taken: double-layer winding by crown extrusion for tread, 6 layers of 1400dtex/2V₁ nylon 6 dipped cord and 2 layers of 1400dtex/2V₂ nylon 6 dipped cord for carcass, $\Phi 0.96$ mm 19[#] tempered steel wire for bead, using building machine with turning-up bladder to build tire, and 2 235.2 mm (88 inch) single-mold curing press to cure tire. It was confirmed by the test of finished tires that the inflated peripheral dimension and physical properties met the requirements of the design and enterprise standard.

Key words: paddy field agricultural tire; structure design; construction design

溶聚丁苯橡胶市场将以9.2%的增长率增长

据市场研究机构WhaTech公司新发布的报告,2017年全球溶聚丁苯橡胶(SSBR)市场市值达28亿美元,预计2018—2026年将以9.2%的复合年增长率增长。

SSBR具有良好的低温柔韧性、回弹性和耐磨性能。轮胎、翻新及模压制品、注塑和挤出制品、医疗器械、鞋类和汽车零部件等对SSBR的需求持续增长。近年来,SSBR越来越多地用于轮胎,是制造节能轮胎、防滑轮胎、超轻轮胎等高性能轮胎的首选。城市化进程的推进和生活水平不断上升

大大提振了新兴经济体对汽车的需求,为SSBR市场的增长提供了有力的支撑。鞋类和聚合物改性应用对SSBR的需求也日渐增大。

该报告指出,亚太地区SSBR市场市值位居全球第一,这得益于亚太地区工业化程度的提升和汽车行业的不断发展。随着车辆现代化程度的日益提高,以及对车辆安全监管趋于严格,该地区越来越多地采用SSBR。未来几年,各新兴经济体日益增长的需求与技术进步将会为SSBR市场提供相当可观的增长机会。

(清 风)

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