

链段滑移,起到了更好的支撑作用,TPE的压缩永久变形减小;由于乙烯丙烯酸树脂为热塑性材料,压缩过程中发生不可逆形变,其用量过大后,导致TPE的压缩永久变形增大。

3 结论

(1)随着SEBS/PP并用比增大,TPE的压缩永久变形增大。

(2)石蜡油的用量为70份时,TPE的压缩永久变形最小。

(3)随着活性碳酸钙用量增大,TPE的压缩永

久变形减小。轻质碳酸钙对TPE的压缩永久变形性能改善效果最好。

(4)乙烯丙烯酸树脂与碳酸钙的结合可减小TPE的压缩永久变形,当乙烯丙烯酸树脂用量为3份时,TPE的压缩永久变形最小。

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Study on Compression Set of SEBS/PP TPE

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Abstract: The effects of the blending ratio of main materials, and the addition level of paraffin oil, calcium carbonate, vinyl acrylic resin on the properties of hydrogenated styrene-butadiene-styrene block copolymer (SEBS)/polypropylene (PP) thermoplastic elastomer (TPE) were investigated. The results showed that, as SEBS/PP blending ratio decreased, the Shore A hardness and compression set of TPE increased. When the addition level of paraffin oil was 70 phr, the tensile strength of TPE was at the maximum and the compression set was at the minimum. As the addition level of calcium carbonate increased, the compression set of TPE decreased. Vinyl acrylic resin could reduce the compression set of TPE, and minimum compression set was obtained at 3 phr vinyl acrylic resin.

Key words: hydrogenated styrene-butadiene-styrene block copolymer; polypropylene; thermoplastic elastomer; compression set

阻燃型钢缆传送带覆盖橡胶

中图分类号:TQ336.2 文献标志码:D

由青岛三汇橡胶机械制造有限公司申请的专利(公开号 CN 104693497A, 公开日期 2015-06-10)“阻燃型钢缆传送带覆盖橡胶”,涉及的覆盖胶配方为:天然橡胶 50~60,丁苯橡胶 40~50,炭黑 40~50,氢氧化铝 1~5,硼酸锌 1~3,氧化锑 20~25,氧化锌 4~8,石蜡 15~20,防老剂 2~4,硫黄 3~6,促进剂 1~2。这种阻燃型钢缆传送带覆盖胶具有良好的物理性能和阻燃性能,制备方式简单,制备过程无污染。

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自动化橡胶密封圈装配装置

中图分类号:TQ336.4⁺2 文献标志码:D

由蔡斌奇申请的专利(公开号 CN 104690686A, 公开日期 2015-06-10)“自动化橡胶密封圈装配装置”,涉及的自动化橡胶密封圈装配装置包括第一振动盘、第二振动盘、滑座和能上下移动的锥头机构。滑座上设有能左右滑动的滑块,滑块上设有管接头座和密封圈座,当滑块靠滑座的左侧时,管接头座与第一振动盘的下料槽连接;当滑块靠滑座的右侧时,密封圈座与第二振动盘的下料槽连接。该发明实现了密封圈的全自动安装,节约了安装成本,提高了安装效率。

(本刊编辑部 赵敏)