

隆磨耗量与硬弹积对数的线性关系较好,老化后较差。

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Effects of Hardness and Resilience on Wear Resistance of SBR

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Abstract: The synergistic effects of hardness and resilience on wear resistance of SBR with different microstructures and formula were investigated. The results showed that, when the microstructure of SBR was different, and the physical properties of SBR vulcanizates were different, the relationship between the Akron wear volume of SBR vulcanizate and the product of hardness and resilience (H^4R) was linear. With different types of SBR, the Akron wear volume of SBR vulcanizate filled with different levels of carbon black and aged for different time also had good linear relationship with H^4R .

Key words: SBR; hardness; resilience; synergistic effect; wear resistance

硅胶自粘胶配方及制备方法

中图分类号: TQ333.93 文献标志码: D

由东莞市宏达新材料有限公司申请的专利(公开号 CN 101805520A, 公开日期 2010-08-18)“硅胶自粘胶配方及制备方法”, 涉及的硅橡胶自粘胶配方各组分及用量为: 甲基乙烯基硅橡胶(MVQ) 30~55, 甲基硅油 30~55, 白炭黑 10~20, 羟基硅油 1~8, 含氢硅油 0.3~0.8, 脱模剂 0.1~0.3。制备方法为: 按比例将 MVQ、羟基硅油、含氢硅油和脱模剂投入到真空

捏合机中捏合, 再把白炭黑分 2 次投入其中, 第 1 次投入的白炭黑成团后再进行第 2 次投入; 待所有原料成团后, 开氮气, 通蒸汽加热, 在 160~170℃ 的高温下恒温 1.5~2.5 h; 然后降温, 降温过程中按比例加入甲基硅油, 搅拌 1 h 左右, 降温至 60~80℃ 出料, 再用橡胶压滤机过滤, 待胶料冷却即可。该硅橡胶自粘胶具有粘性和抗拉性强、易加工且环保的特性, 可广泛应用于防滑产品等领域。

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