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## Structure and Properties of Star-Shaped Solution SBR/IR Blends

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**Abstract:** The influence of the blending ratio on the properties of self-developed star-shaped solution SBR(S-SSBR)/IR blends reinforced by carbon black was studied. The results showed that S-SSBR had good compatibility with IR, blending with IR improved the processing properties and low temperature properties of S-SSBR, and increased the cure rate. With increase of the addition level of IR, the hardness and compression temperature rise of the vulcanizates decreased, the abrasion resistance and tensile permanent set gradually increased. The change of wear surface morphology and physical properties showed that phase transition occurred while the adding level of IR reached 40 phr. When S-SSBR was in continuous phase, the wet-skid resistance decreased and rolling resistance changed little with the increase of the addition level of IR. When the blending ratio of S-SSBR/IR was 80/20, the blend had the better comprehensive properties.

**Key words:** star-shaped solution styrene butadiene rubber; isoprene rubber; processing property; rolling resistance; wet-skid resistance

### 橡胶促进剂M生产废水处理方法

中图分类号:X783.3;TQ330.38<sup>+</sup>5 文献标志码:D

由山东永泰化工有限公司申请的专利(公开号 CN 104529051A, 公开日期 2015-04-22)“橡胶促进剂M生产废水处理方法”,提供了一种橡胶促进剂M生产废水处理方法:(1)废水加酸中和至pH值为6.5~7.5,进行多效蒸发脱盐处理;(2)在步骤(1)所得废水中加入消泡剂,经过曝气

消泡处理;(3)在步骤(2)所得废水中加入微生物净水剂;(4)在步骤(3)所得废水中加入酶制剂;(5)氧化并吸附步骤(4)所得废水。该污水处理方法净水效果好、净水速度快、安全性高,不产生二次污染,用具有吸附能力的材料为原料,辅以微生物对污水进行处理,应用范围广,处理后的水透明度极高,可回收利用。

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