

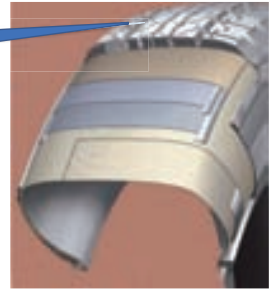
超低滚动阻力改性橡胶 LRE

特点

LRE是使用大塚化学公司研发的特种添加剂OCST改性的超低滚动阻力橡胶，应用在轿车的胎面胶中，可大幅度降低轮胎滚动阻力至A级或者B级，同时轮胎的抗湿滑性能达到B级以上。产品特点如下：

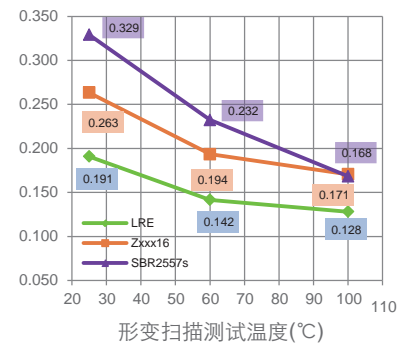
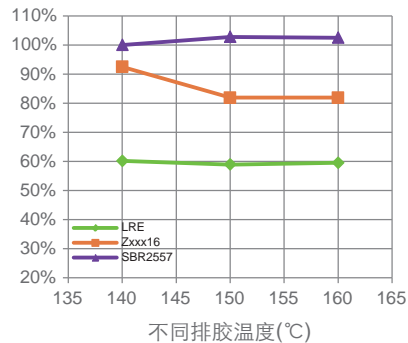
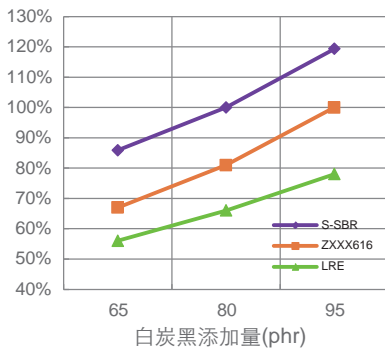
- 1 新型的主链改性，有更高的活性来提高白炭黑分散，降低滚动阻力
- 2 在较低的炼胶温度下(140℃)也能充分发挥白炭黑分散作用
- 3 可根据客户需求定制各种改性的丁苯橡胶(SBR)以及它们的组合物

胎面



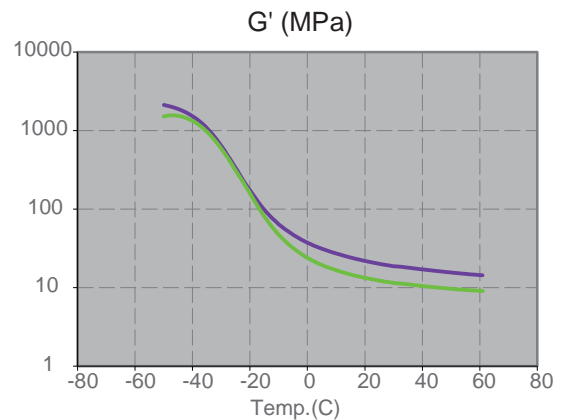
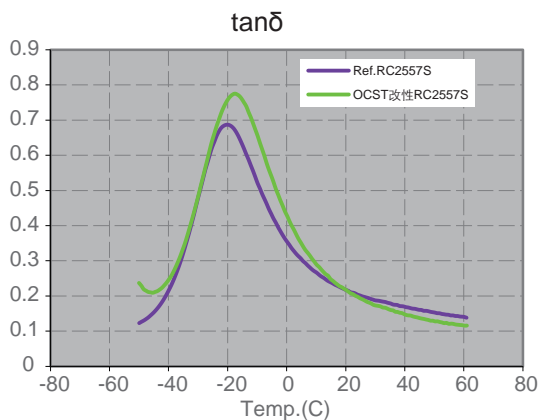
性能

白炭黑绿色轮胎胎面中的应用-滚动阻力 $\tan\delta$



LRE的 $\tan\delta$ 损耗因子比传统橡胶低30%以上，比末端改性橡胶低20%，并且在100℃的高温仍然能够保持良好的低滚阻特性。由于LRE的高白炭黑亲和活性，140℃的低炼胶温度下仍然有优良的白炭黑分散作用。

白炭黑绿色轮胎胎面中的应用-抗湿滑和低温特性



OCST改性的RC2557S表现出更高的抗湿滑性能，在60℃区间有更低的滚动阻力，从G'曲线图看改性后的橡胶保持其原有的低温特性。



所有试验数据仅供参考，不作为实际产品技术数据的绝对值

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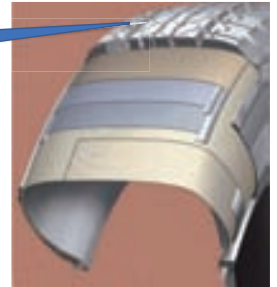
Ultra-low Rolling Resistance Elastomer LRE

Features

LRE is elastomer modified by Otsuka Chemical's special additive OCST. It applies in passenger car tire tread compound to reduce rolling resistance till level A or B, and the wet grip can achieve B at the same time. Its advantages are as following.

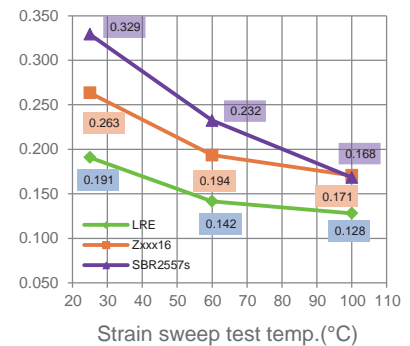
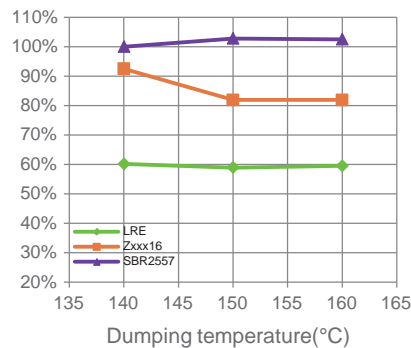
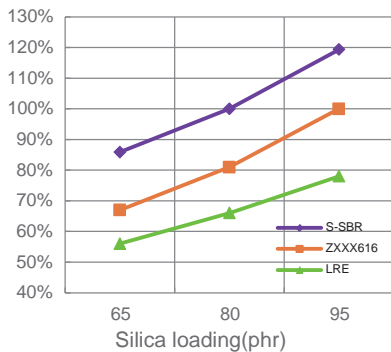
- ① New generation main chain functionalization for high silica dispersion
- ② Good silica dispersion even at low mixing temperature (140°C)
- ③ Customized modified SBRs and their combinations possible

Tread



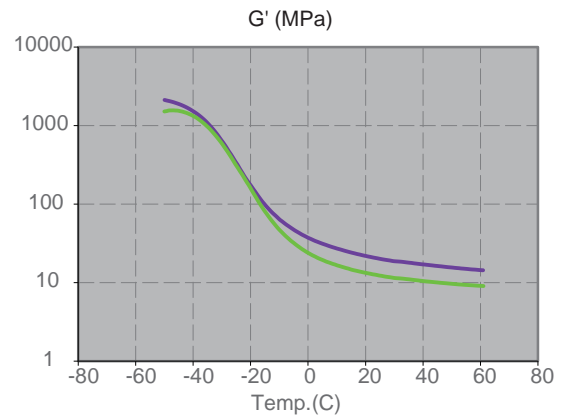
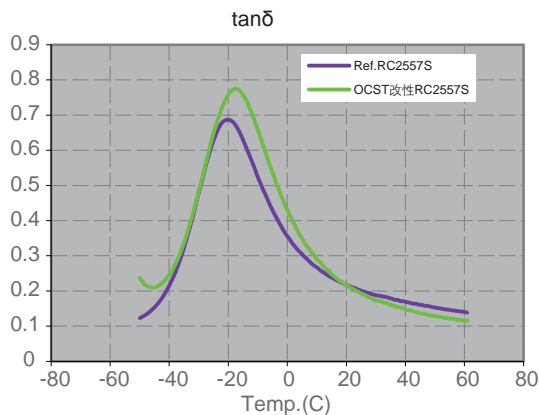
Performances

Silica Green Tire Application - $\tan\delta$ Rolling Resistance



LRE has more than 30% lower RR than conventional SBR, and 20% lower than functionalized SBR. It keeps low $\tan\delta$ even at 100°C. It disperses silica well even under low mixing temperature such as 140°C.

Silica Green Tire Application - Wet Grip/Low Temp. Performance



OCST modified RC2557S exhibits better wet grip performance and lower rolling resistance at 60°C. From the G' graph, the modified SBR keeps its low temperature performance as the original.



All test results are for reference purpose only, not guarantee for actual products.