



## 掺加PR添加剂沥青混合料的高温性能评价方法

### Evaluation Methods of Asphalt Mixture's High Temperature Performance

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英文关键词: [asphalt mixture](#) [PR additives](#) [high temperature performance](#) [evaluation methods](#) [uniaxial repeated shear test \(constant height\) \(RSCH\)](#)

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#### 中文摘要

选用车辙试验、单轴贯入试验和恒定高度重复剪切试验 (RSCH) 来进行掺加PR添加剂沥青混合料的高温性能评价方法研究。车辙性能的影响时, 动稳定度和车辙深度的背离导致其无法确定。采用单轴贯入试验得到的极限抗剪强度和RSCH得到的 $k_1$ ,  $k_2$ ,  $n$ 和 $\gamma$  4个参数得到了相同的结论, 能很好地进行其高温性能的评价。RSCH的4个参数不仅能表征出掺加PR添加剂混合料的高温抗剪能力, 而且能很好地区分, 充分反映出了混合料的破坏机理。

#### 英文摘要

Researched on the evaluation methods of asphalt mixture high temperature performance with PR additives added using repeated shear test (constant height) (RSCH). The results of rutting test show that, for the confliction between dynamic stability and rutting depth, it is difficult to determine the influence of PR additives on mixture high temperature performance between PR.S and PR.M. Using extreme shearing strength of RSCH, as the evaluation indexes of asphalt mixture high temperature performance with PR additives added, obtain the same conclusion, methods are suitable for high temperature performance evaluation. The four indexes of RSCH not only represent asphalt mixture high temperature performance, but also discriminate the different steps of shearing deformation progress, and represent the mixture failure mechanism.