



Analysis of Stabilizer for SBR Rubber

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1. Scope of Application

This shall be analysis method for stabilizer of SBR rubber by ultraviolet spectrometer and be applicable to SBR whose stabilizer and standard content is known.

2. Sample

- (1) Stabilizer standard sample
- (2) Methy 1Ciclo Hexane
- (3) Ethy 1 alcohol

3. Method

- (1) Cut dried sample to less than 0.5 mm.
- (2) In case of measuring acetone-de penil amin, weigh sample to 1 g to contain 1.5 ~ 2.0 mg stabilizer and in case of composite alkil de penil amin, to contain 2.0 ~ 2.5 mg stabilizer.
- (3) Select solvent according to table and put sample in 250 mℓ flask and solve it adding 200 mg solvent.

When ray degree is not between 0.4 and 1.0, increase sample amount or dilute solution for degree to be within this range.

- (4) After solving completely, make it to be 250 mg with the same solvent. measure ray degree with wavelength indicated in table with the same solvent and 1 cm quartz cell and ultraviolet spectrometer.

4. Non-Ray Coefficient Calculation Method

- (1) In case of measuring acetone-de akil amin response product, put sample of 0.24 gr to 1 ℓ mass flask and make it to be 1 ℓ with solvent indicated in table and in case of composite alkil de penil amin, sample of 0.32 gr.