

KES

**Test Standard of Standard
Evaluation of Oil Solution
Polymerized- BR
(Butadiene Rubber)**

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1. Scope of application

This standard shall specify standard matching material, matching prescription, practice sequence and test method for evaluation and manufacturing management of the oil butadiene rubber(OE-BR) polymerized in solution polymerization.

2. Matching prescription in standard test

Standard matching prescription

Matching material	NBS SRM } No	Weight(Number)
BR	—	100.00+Y
Zinc oxide	370	3.00
Sulfur	371	1.50
Stearine acid	372	2.00
Oil furnace black	378	60.00(100+Y) 0.01
Oil added-accelerating material TBBS	384	0.90(100+Y) 0.01
Batch factor in roll matching	4.0 – 0.0036Y	
Internal mixer matching	1.170(1.02+0.00044Y)	

3. Manufacture of sample

Collect and manufacture the test sample as to ASTM D 1485.

4. Practice sequence

4.1 ASTM D 3182 is recommended as the general practice sequence.

The Characteristic of rolling operation of solution polymerized-butadiene is more difficult than those of other rubbers. So, the practice sequence in the internal mixer is easy.

Sometimes, the result from roll down method is different from that from internal mixer method. Following 3 kinds of practice sequence are supplied.