

Improvement of Rubber Toughness by Cross-linking Effect and Techniques for Extending Service Life of Rubber Rolls in Steel Production Processes*

Synopsis:

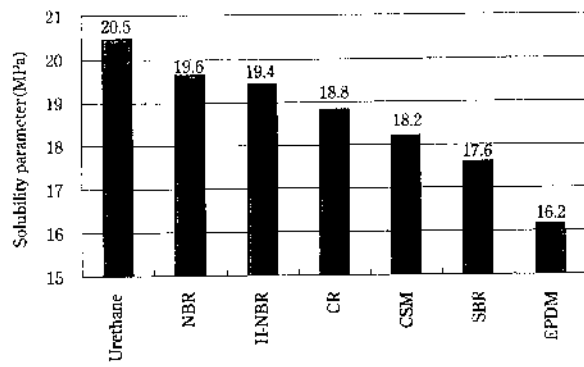


Table 1. Wear resistance

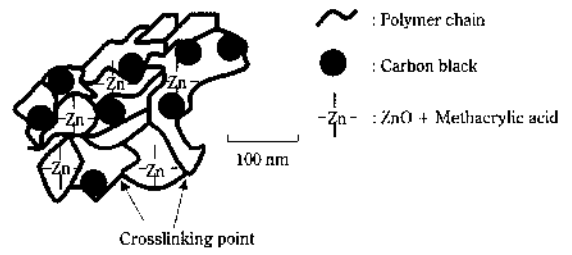


Fig. 2 Microstructure of developed rubber

improvement in abrasive wear resistance by the formation of a high order structure is expected

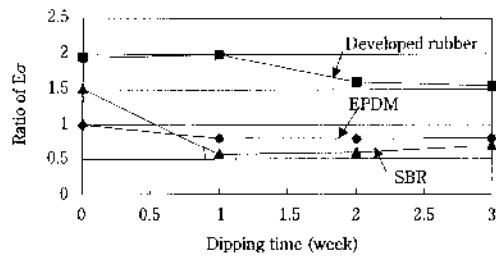


Fig. 4 Change of the ratio of $E\sigma$ during dipping experiments

mately 1.9 times and SBR approximately 1.5 times that of EPDM. Thus, the developed rubber has a value approximately 1.3 times that of SBR, and therefore can be expected to provide abrasive wear resistance superior to that of SBR.

2.4 Performance Evaluation in Laboratory Tests

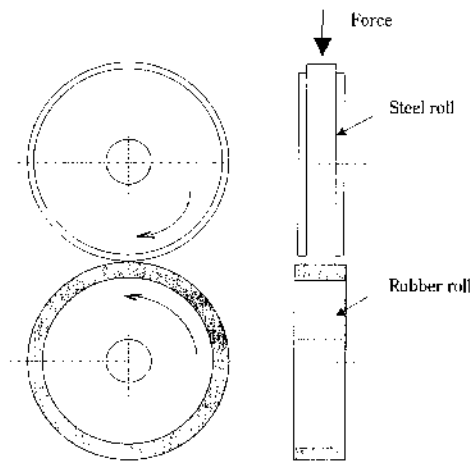
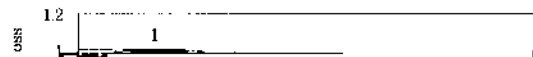


Fig. 5 Schematic diagram of abrasive wear test



2.5 Total Evaluation in Production Equipment

From the laboratory tests described thus far, it can be

concluded that the total evaluation in production equipment



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