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An evaluation of joints made with natural rubber components containing cashew nut shell liquid based resin as tackifier

A lightly loaded natural rubber black mix, containing cashew nut shell liquid (CNSSL) based resin as tackifier is prepared in the form of strips. The joints made with the strips are tested for their bond strength values before and after vulcanization. The values thus obtained are then assessed by comparing with the bond strength values of joints made with the strips of corresponding natural rubber mix containing coumarone-indene (CI) resin, the imported tackifier.

The study reveals that as compared to the joint made with coumarone-indene resin added rubber mix strips, although the joint made with CNSL-based resin added rubber mix strips shows slightly weaker bond strength in the unvulcanised state, its bond strength is considerably greater in the vulcanized state. This suggests that the joints made with CNSL- based resin added natural rubber components are stronger than the joints made with coumarone-indene resin added natural rubber components.