



PRODUCT BULLETIN

NOVITANE® • SHEETING • CONVEYOR BELTING • CUSTOM PRODUCTS

COMPARATIVE ABRASION RESISTANCE OF ELASTOMERIC MATERIALS

NOVITANE is a specially formulated polyester based polyurethane designed to provide superior abrasion resistance when compared to other elastomeric materials.

The following materials were subjected to a Taber Abrasion Test according to ASTM D 3389, utilizing H-18 wheels, a 1000 gram load at 1000 cycles. The resulting weight loss in milligrams per revolution were as follows.

ELASTOMERS:	mg wt. loss
NOVITANE CU-85	.027
NOVITANE CU-75	.032
NOVITANE FG-85	.024
RMA Grade I Nat'l/SBR Rubber	.154
RMA Grade II SBR Rubber	.369
LINATEX 40 durometer	.283
LINATEX 60 durometer	.388
#150 PVC - CBS	.429
Urelok 150 C X C - Black	.092
3 ply C/N Blue Urethane 1/16" x FS	.482
Polymate 135 Green COS - PU	.059

In comparing the weight loss of a RMA Grade II rubber compound formulation, commonly used in rubber covered conveyor belting and conveyor belt wiper/scrapper rubber, to CU-85 you can see that the CU-85 has 93% less weight loss and in effect has 13.7 times more abrasive wear resistance. The Taber Abrasion test results, however, do not imply that the CU-85 NOVITANE will provide 13.7 times more service life than the RMA Grade II rubber compound, but will significantly increase service life where severe abrasion is the primary factor. The service life of any elastomeric product is influenced by many factors in addition to abrasion.

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