

DARTEK® C917 NYLON FILM DELIVERS ACCURATE AND REPEATABLE RHEOMETER READINGS



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Rheometers are used worldwide by rubber compounders and processors. These specialized machines measure the properties of compounds for quality and consistency and, through interpretation of the readings, predict the performance of the compound in the molding process, and the properties of the finished product.

Rheometers typically use heated oscillating dies to mold the compound and generate torque readings from which the predictions of the quality and performance of the compound can be made. Accuracy and repeatability are extremely important and it is critical that the readings truly represent the sample, and are not negatively influenced by outside factors.

The film which is used to encapsulate the compound throughout the heating and oscillating cycle is critical. The operator does not want the film to introduce its own strain value to that of the compound, which can distort the accuracy of the torque reading and resulting predictions. The operator also does not want incomplete forming of the film around the sample, slippage during oscillation and generation of torque readings, or burn through – all of which can add to the operator's work and can cause unwanted clean-up and re-testing.

Dartek® C917 is a heat-stabilized cast nylon film with excellent elongation, which enables accurate readings. Dartek® C917 provides the very critical performance requirements the processor needs and, as a result, Dartek® C917 has become the film of choice at major tire producing operations.

According to industry reports, Dartek® C917 forms easily and quickly in the heated dies, conforms snugly into the grooves of the molded sample, imparts minimal strain of its own when the die is oscillated, and does not negatively influence the torque readings which provide the base-line information. Dartek® C917 also eliminates burn through, slippage during oscillation and other bothersome issues.

As a result of these features, Dartek® C917 film enables the operator to generate accurate and repeatable readings on which they can base their decisions and which eliminates the need to do extensive re-tests, or worse, releasing out-of-spec compound into production.



The miracles of science™