E2C® FX95790 elastomer composite

GENERAL DESCRIPTION

Cabot's engineered elastomer composite (E2C®) solutions are designed for superior particle dispersion and enhanced polymer-particle interaction, which results in stronger reinforcement, improved resistance to damage and reduced hysteresis.

PERFORMANCE FEATURES

E2C FX9570 elastomer composite is designed to improve heat buildup and rebound performance while delivering high durability where abrasion and cut-chip wear are typical.

TYPICAL APPLICATIONS

- Off-the-road tread/retread for high durability
- Screen panel for optimizing durability and throughput
- Agricultural rubber track
- Small particle mining applications with abrasion:
  - Mill liner
  - Slurry pump liner
  - Cyclone liner

CABOT

E2C™ FX9570 elastomer composite

TEST SETUP:

E2C mixing follows Cabot Light Touch™ mixing protocols; reference compound uses two-stage mixing. NR=natural rubber. CB=carbon black.

PERFORMANCE	E2C FX9570 elastomer composite	NR/ ASTM N220 CB	NR/ ASTM N330 CB
Mooney Viscosity ML (1+4) at 100˚ C, M.U.	82	89	83
300% Modulus, MPa	13.9	12.9	12.7
Tensile Strength, MPa	30.6	28.7	28.6
Elongation at Break, %	574	594	596
Tanδ at 60° C	0.16	0.22	0.19

Figure 1. E2C FX9570 elastomer composite has high toughness while having low hysteresis loss
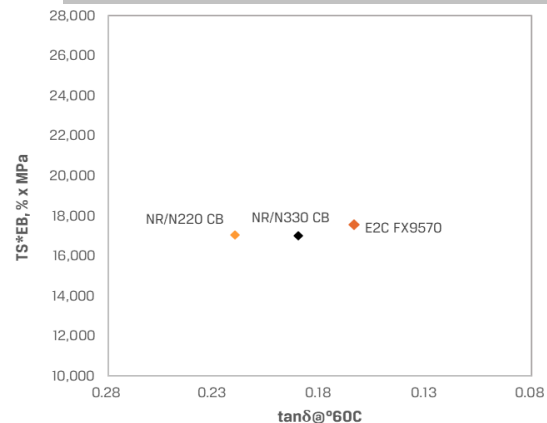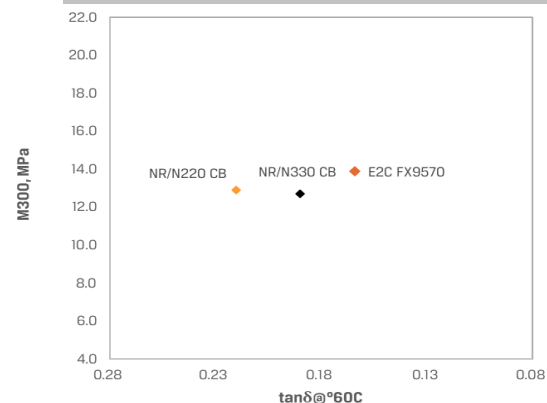

Figure 2. E2C FX9570 elastomer composite has high M300 and low hysteresis loss

For more information, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot representative at **cabotcorp.com/contact.**