PRODUCT DATASHEET

E2C® FX9390 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 FX9390 is formulated to deliver significant performance improvement balanced across cut/chip/chunk resistance, heat buildup and abrasion resistance.

TYPICAL APPLICATIONS

- Mining tire tread/retread for high durability
- Rubber track for construction
- Hard rock mining with high impact, cut and gouge:
  - Mill liner
  - Conveyor belt top cover

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TEST SETUP:

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

PERFORMANCE	E2C FX9390 elastomer composite	NR/ ASTM N220 CB	NR/ ASTM N330 CB
Mooney Viscosity ML (1+4) at 100° C, M.U.	**81**	**89**	**83**
300% Modulus, MPa	**12.2**	**12.9**	**12.7**
Tensile Strength, MPa	**31.4**	**28.7**	**28.6**
Elongation at Break, %	**603**	**594**	**596**
Tanδ at 60° C	**0.21**	**0.22**	**0.19**

Figure 1. E2C FX9390 elastomer composite has high toughness while having low hysteresis loss

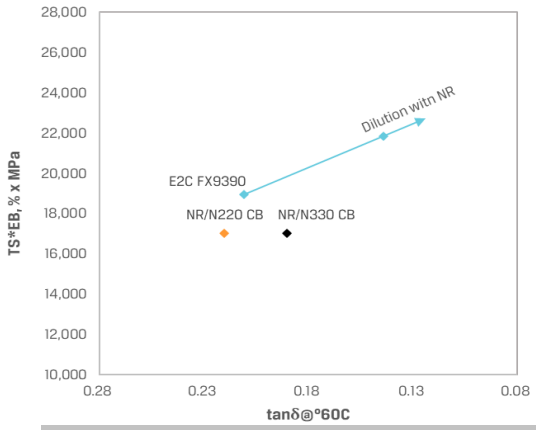
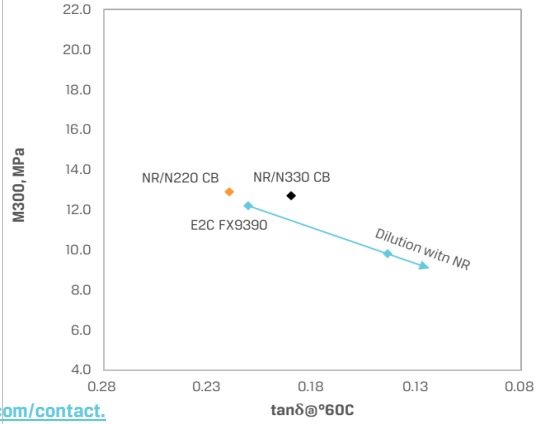


Figure 2. E2C FX9390 elastomer composite has high M300 and low hysteresis loss



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