



E2C[®] EX9620 elastomer composite



GENERAL DESCRIPTION

Cabot Corporation'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 EX9620 elastomer composite is designed to deliver superior heat buildup performance and rebound without sacrificing for durability in applications where abrasion is the primary wear mechanism.

TYPICAL APPLICATIONS

- ◆ Off-the-road tread/retread for high durability
- ◆ Heavy urban (city bus, garbage truck)
- ◆ Screen panel for minimizing plugging and blinding
- ◆ Mining slurry applications with erosion:
 - Slurry pump liner
 - Hydro-cyclone liner

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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 EX9620 elastomer composite	NR/ ASTM N220 CB	NR/ ASTM N330 CB
Mooney Viscosity ML (1+4) at 100° C, M.U.	69	89	83
300% Modulus, MPa	17.0	12.9	12.7
Tensile Strength, MPa	29.8	28.7	28.6
Elongation at Break, %	528	594	596
Tanδ at 60° C	0.130	0.22	0.19

Figure 1. E2C EX9620 elastomer composite has high toughness while having low hysteresis loss

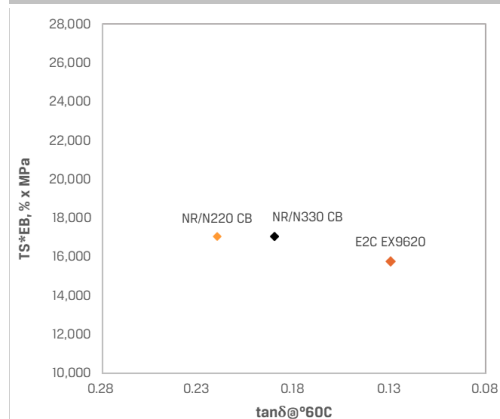
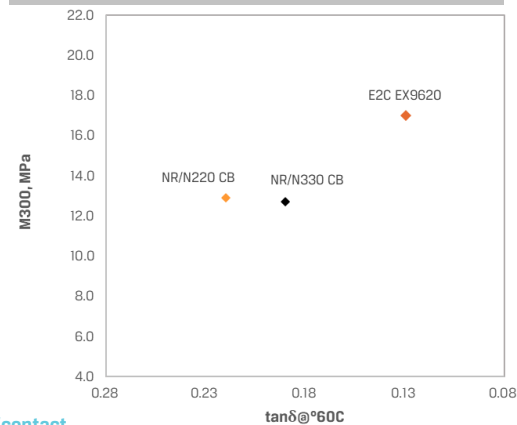


Figure 2. E2C EX9620 elastomer composite has high M300 and low hysteresis loss



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

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