

PRODUCT DATASHEET

E2C® DX9660 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 DX9660 elastomer composite is designed to have very high level of abrasion resistance and good hysteresis. It features high 300% modulus and dynamic stiffness.

TYPICAL APPLICATIONS

- On road truck tire tread/retread
- Non-tire rubber products for high abrasion:
 - Mill liner with high abrasion (Secondary mill)
 - Trommel screen panel
 - Ultra-high abrasion conveyor belt
 - High abrasion rubber track
 - Other rubber parts with high abrasion



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TEST SETUP:

E2C compound follows Cabot Light Touch™ mixing protocols with two-stage compounding; NR/N134 reference compound uses three-stage compounding, NR/N330 reference compound uses two-stage compounding. NR=natural rubber. CB=carbon black.

PERFORMANCE	E2C DX9660 elastomer composite	NR/ Astm N134 CB	NR/ Astm N330 CB
Compounding Stages	2	3	2
Mooney Viscosity ML (1+4) at 100° C, M.U.	84	80	71
300% Modulus, MPa	18.2	15.7	14.9
Tensile Strength, MPa	33.3	32.1	29.2
Elongation at Break, %	489	533	518
Tan δ at 60° C	0.18	0.21	0.18

Figure 1. E2C DX9660 elastomer composite has high toughness while having low





- Performance: E2C DX9660 elastomer composite has similar TS*EB and higher M300 vs. NR/N134 compound, with tanδ values similar to NR/N330 compound.
- Processing: E2C DX9660 elastomer composite can reduce mixing stages while having similar processability compared to NR/N134 compounds.
- Flexibility: Dilution of E2C DX9660 elastomer composite enables additional performance space.

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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