

E2C[®] DX9640S elastomer composite



GENERAL DESCRIPTION

Cabot Corporation's **E2C[®]** engineered elastomer composites 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 DX9640S elastomer composite is designed for applications that require severe abrasion resistance and low heat buildup. It features high 300% modulus and low $\tan \delta$.

TYPICAL APPLICATIONS

- ◆ On road truck tire tread/retread
- ◆ Non-tire rubber products for high abrasion:
 - Mining tire tread/retread for improving tonne-kilometres per hour (TKPH)
 - Tire undertread
 - On-road truck tire treads
 - Industrial rubber products for high durability

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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 DX9640S elastomer composite	NR/ ASTM N220 CB	NR/ ASTM N330 CB
Mooney Viscosity ML (1+4) at 100° C, M.U.	84	89	83
300% Modulus, MPa	18.5	12.9	12.7
Tensile Strength, MPa	30.1	28.7	28.6
Elongation at Break, %	473	594	596
Tanδ at 60° C	0.15	0.22	0.19

Figure 1. E2C DX9640S elastomer composite has high toughness while having low hysteresis loss

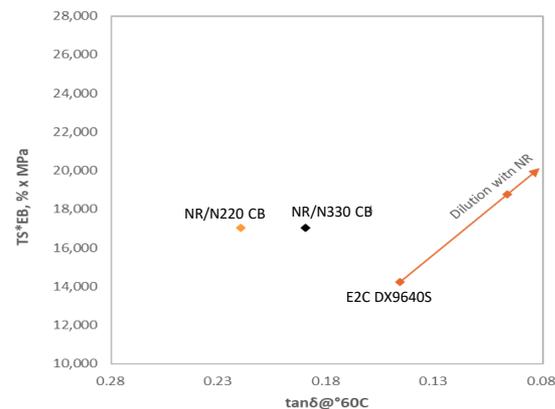
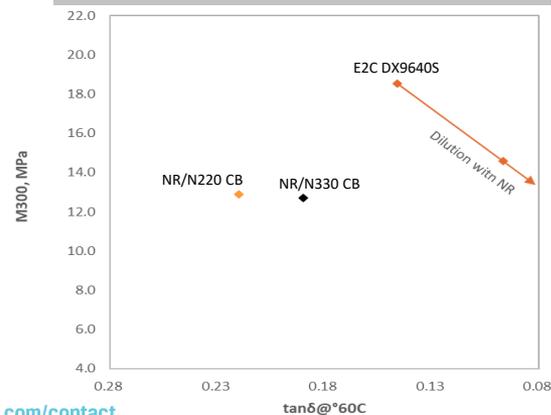


Figure 2. E2C DX9640S elastomer composite has high M300 and low hysteresis loss



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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