

E2C[®] DX9730 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 DX9730 elastomer composite is designed for applications that require resistance to severe cutting and chipping. It features high elongation and high tensile strength.

TYPICAL APPLICATIONS

- ◆ On road truck tire tread/retread
- ◆ Non-tire rubber products for high abrasion:
 - Mining tire tread/retread for severe operating environments
 - Industrial rubber products for high durability

E2C™ DX9730 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 DX9730 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	9.1	12.9	12.7
Tensile Strength, MPa	33.3	28.7	28.6
Elongation at Break, %	700	594	596
Tanδ at 60° C	0.22	0.22	0.19

Figure 1. E2C DX9730 elastomer composite has high toughness while having low hysteresis loss

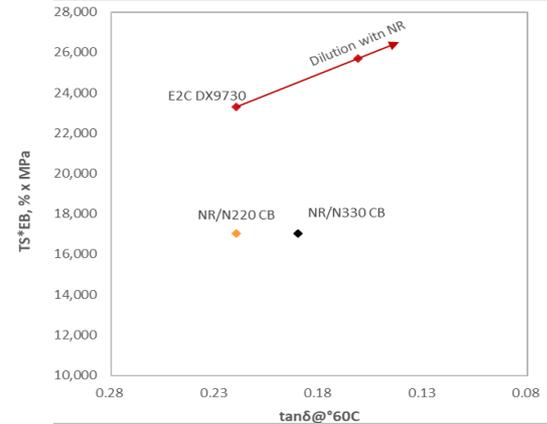
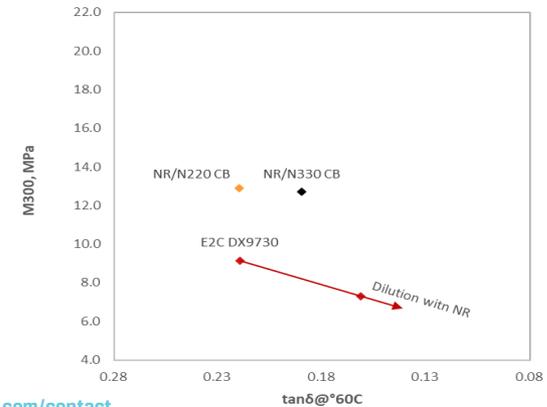


Figure 2. E2C DX9730 elastomer composite has high M300 and low hysteresis loss



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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