

# E2C<sup>®</sup> DX9640 elastomer composite



### GENERAL DESCRIPTION

Cabot Corporation's engineered elastomer composite (E2C<sup>®</sup>) 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 DX9640 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

# E2C™ DX9640 elastomer composite

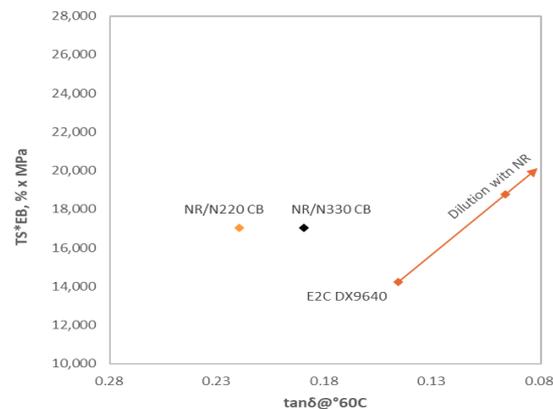
### TEST SETUP:

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

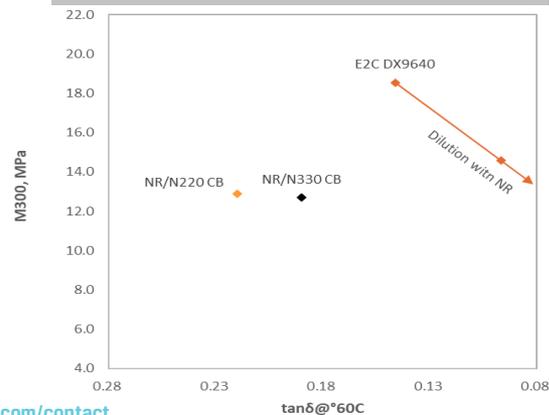
### PERFORMANCE

	E2C DX9640 elastomer composite	NR/ ASTM N220 CB	NR/ ASTM N330 CB
Mooney Viscosity ML (1+4) at 100° C, M.U.	<b>84</b>	<b>89</b>	<b>83</b>
300% Modulus, MPa	<b>18.5</b>	<b>12.9</b>	<b>12.7</b>
Tensile Strength, MPa	<b>30.1</b>	<b>28.7</b>	<b>28.6</b>
Elongation at Break, %	<b>473</b>	<b>594</b>	<b>596</b>
Tanδ at 60° C	<b>0.15</b>	<b>0.22</b>	<b>0.19</b>

**Figure 1. E2C DX9640 elastomer composite has high toughness while having low hysteresis loss**



**Figure 2. E2C DX9640 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](https://cabotcorp.com/contact).

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