

ENDURE™ E37 carbon black



GENERAL DESCRIPTION

Many industrial rubber product applications operate under severe conditions that lead to significant wear and tear. Improved durability of the rubber components may provide a distinct total cost advantage. As part of Cabot's ongoing commitment to deliver solutions that meet our customers' needs, we have developed the ENDURE™ family of carbon blacks engineered for durability.

Improving wear, chunking and tear resistance or reducing heat buildup can result in longer part life, reducing costly equipment downtime, increasing throughput and enhancing end user profitability. Cabot products can enhance rubber part life and durability by optimizing the balance between heat buildup and reinforcement and are identified by the letter "D" in the ENDURE nomenclature system.



In certain applications such as conveyor belts, reduced hysteresis in the rubber compound may also be of interest as it can result in decreased power consumption, representing a significant energy and operating cost saving. In other applications such as rubber tracks and certain mill liners, a decrease in hysteresis can help with extending part life. Cabot products can help reduce energy costs and extend part life by optimizing the balance between hysteresis and reinforcement and are identified by the letter "E" in the ENDURE nomenclature system.

PERFORMANCE FEATURES

ENDURE™ E37 carbon black provides low hysteresis and is relatively easy to disperse with fast incorporation and good dispersion. ENDURE™ E37 carbon black offers reinforcement similar to compounds made with ASTM N300 series carbon blacks but with a considerable reduction in hysteresis and significantly greater durability than ASTM N500 series carbon blacks.

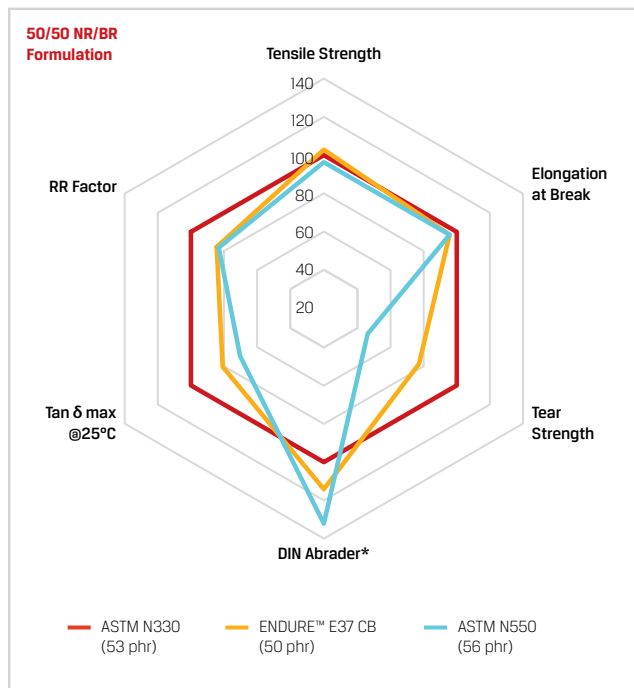
TYPICAL APPLICATIONS

- ◆ Bottom cover of low rolling resistant conveyor belts
- ◆ Base of rubber tracks
- ◆ Tread of rubber tracks

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TECHNICAL DATA

ENDURE™ E37 carbon black can reduce the hysteresis of rubber compounds compared to compounds made with ASTM N300 series carbon blacks, maintain good reinforcement properties and exhibit improved durability over N500 series carbon blacks.



50/50 NR/BR Formulation	ASTM N330	ENDURE™ E37 CB	ASTM N550
Loading, (phr)	53	50	56
Hardness, (Shore A)	68	68	67
Tensile Strength, (MPa)	20.5	21.2	19.8
100% Mod, (MPa)	3.7	4.3	4.1
300% Mod, (MPa)	16.9	18.8	16.7
Elongation at Break, (%)	351	339	340
Tear Strength, (N/mm)	86	67	40
DIN Abrader (mm ³)*	66	76	88
Rebound @ 23°C, (%)	60	65	70
Tan δ max @25°C	0.16	0.13	0.11
RR Factor	0.083	0.070	0.069

* higher DIN Abrader means worse

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