

## STERLING® SO-RC110 Circular Reinforcing Carbon

STERLING® SO-RC110 circular reinforcing carbon, powered by EVOLVE™ Sustainable Solutions, is a semi-reinforcing material containing 10% of reclaimed carbon, which is ISCC PLUS certified. ISCC is a globally leading certification system for feedstocks and markets to ensure sustainable content and traceability in supply chains.

Learn more: [iscc-system.org](https://iscc-system.org)

### PERFORMANCE FEATURES

Through Cabot's novel mixing and pelletization technology, STERLING SO-RC110 circular reinforcing carbon combines ISCC PLUS certified reclaimed carbon material with STERLING SO to deliver physical performance that is equivalent to ASTM N550 carbon black, maintaining high levels of quality consistency and processability in rubber compounds.

### TYPICAL APPLICATIONS

STERLING SO-RC110 circular reinforcing carbon is particularly suited for rubber applications that require an increase in sustainable content without compromising rubber performance, and for rubber compounders desiring logistic simplicity.

STERLING SO-RC110 circular reinforcing carbon is applicable in all applications where ASTM N550 type carbon black is used, such as:

#### Tires

- ◆ Sidewalls and undertread compounds in passenger car and light truck tires

#### Industrial Rubber Products

- ◆ Extruded rubber articles like hoses and construction profiles
- ◆ Engine mounts and belt inner layers
- ◆ Molded rubber parts

### ABOUT EVOLVE™ SUSTAINABLE SOLUTIONS

EVOLVE Sustainable Solutions is Cabot's technology platform for delivering sustainable reinforcing carbons. Products powered by EVOLVE Sustainable Solutions offer sustainable content with reliable performance at industrial scale, using circular value chains, renewable and bio-based materials, and processes that reduce our greenhouse gas footprint.

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## PRODUCT DATA SHEET



### TECHNICAL DATA

The table shows the balance in basic rubber properties between STERLING® SO-RC110 circular reinforcing carbon and STERLING® SO in a 50/50 NR/BR sidewall formulation with equal loadings of reinforcing carbons. No other adjustment is made to the formulation.

	STERLING® SO-RC110 circular reinforcing carbon	STERLING SO® carbon black
<b>Loading (phr)</b>	50	50
<b>Processing Properties</b>		
<b>Mooney Viscosity</b>		
ML(1+4), 100 °C	50	52
<b>Physical Properties</b>		
<b>Hardness</b>		
Shore A	58.2	59.6
<b>Tensile Properties</b>		
Tensile Strength, MPa	19.4	20.0
300% Modulus, MPa	11.0	11.7
Elongation at Break, %	475	468
<b>Dynamic Properties (10 Hz, 60 °C)</b>		
G' 10% (MPa)	1.62	1.62
Max tan delta	0.075	0.082

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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