

STERLING® 5630



STERLING® 5630 is a carbon black featuring improved cleanliness and well balanced dispersion and reinforcing properties for good performance in extruded and molded industrial rubber applications.

STERLING 5630 carbon black is an improved N650-type product developed for superior performance in extruded and molded rubber product applications where eliminating surface defects and minimizing scrap rates are critical.

STERLING 5630 carbon black has a higher level of cleanliness than standard semi-reinforcing grades, which results in fewer surface defects on extruded rubber parts. Compared to conventional grades, the improved cleanliness of STERLING 5630 carbon black also contributes to longer screen life (fewer screen changes) and less barrel, screw, and die wear from abrasion.

Further, STERLING 5630 carbon black provides better dispersion and shorter mixing times than N550. For applications where processing is critical, STERLING 5630 carbon black imparts lower compound viscosity with minimal change in tensile strength and modulus compared to N550.

Performance Features

- Higher cleanliness than standard semi-reinforcing carbon blacks, resulting in:
 - fewer product surface defects and lower scrap rates
 - longer extruder screen life or less frequent screen changes
 - longer die life
 - less barrel and screw wear
- Superior surface appearance with single-pass mixing compared to N550
- Good extrusion surface smoothness
- Better dispersion and shorter incorporation and mixing times than N550
- Improved loadability compared to N550, especially in EPDM
- Lower die swell than N700 series carbon blacks for better dimensional stability in hose and extruded products

Typical Applications for STERLING 5630 Carbon Black

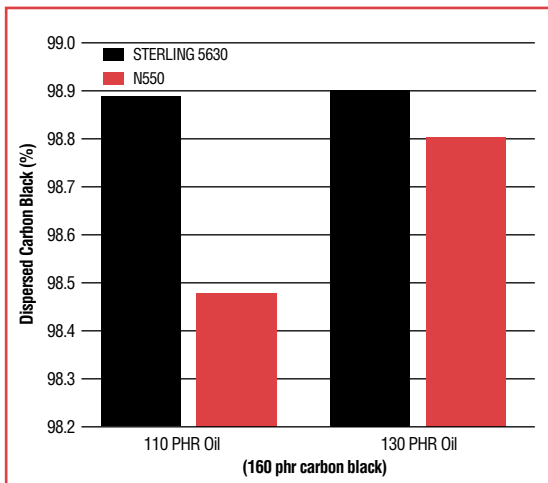
- Weather Stripping
- Window channeling
- Roofing membranes
- Hoses
- Belts

STERLING 5630 and other custom carbon black products have been specially developed by Cabot Corporation's Industrial Products Business as part of the company's ongoing commitment to meet existing market needs and provide solutions for future product design and processing challenges.



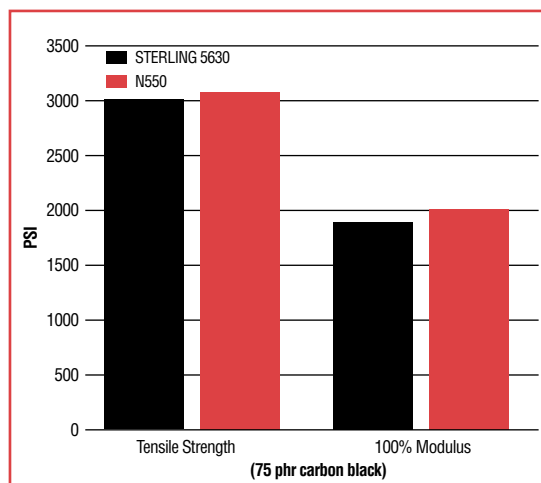
Carbon Black Dispersion in EPDM Compound

As measured by Kontron computer imaging, STERLING 5630 carbon black exhibits better dispersion than N550 at equal oil loadings in EPDM compounds.



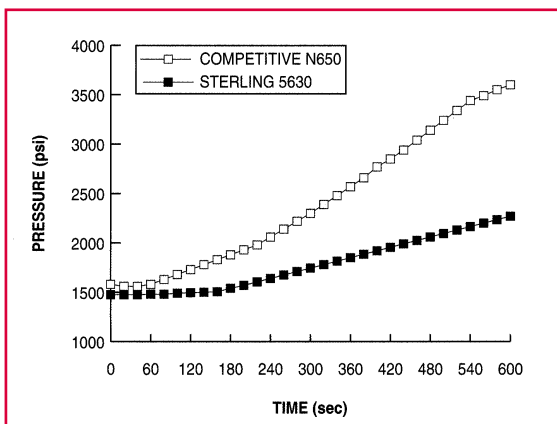
Tensile Strength and Modulus in Polychloroprene

At equal carbon black loading, compound containing STERLING 5630 carbon black exhibits minimal change in tensile strength and modulus compared to compounds containing N550.



Screen Pack Pressure Rise at 100 PHR Carbon Black in EPDM

In an extrusion through a 325 mesh (44 micron) screen pack at 100°C and a rate of 50 grams/min., STERLING 5630 carbon black shows a lower rate of pressure rise than N650. The new product's improved cleanliness results in slower pressure rise and fewer screen pack changes.



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