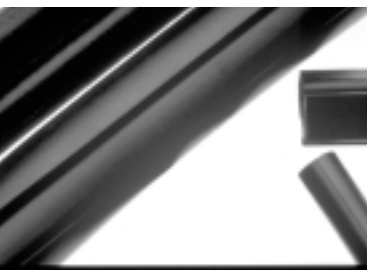


## SPHERON® 5000



SPHERON® 5000 furnace carbon black combines cleanliness with a unique morphology especially developed for surface-critical extruded rubber profiles.

Customers can select SPHERON 5000 carbon black for Class-A surface applications such as window profiles, door seals, and glass-run channels that demand an extremely low level of visible surface imperfections.

The excellent dispersibility of SPHERON 5000 carbon black yields a high level of mixing efficiency. As a result, scrap can be reduced, the mixing cycle is shortened, and a 2-stage cycle may be replaced by a 1-stage cycle. SPHERON 5000 carbon black also confers a high loading capacity allied to excellent high-speed processing with smooth extruded surfaces, good die definition, and dimensional stability. Elasticity and dynamic properties are also better than those offered by conventional grades.

### Performance Features

- Quicker incorporation allows for improved mixing efficiency
- Potential reduction from 2-stage to 1-stage mixing resulting in possible cost savings

### Typical Applications

- Primary and secondary automotive door seals
- Automotive glass-run channels
- Automotive window profiles
- Other sealing applications requiring a Class-A surface finish
- Automotive hoses
- A variety of molded applications

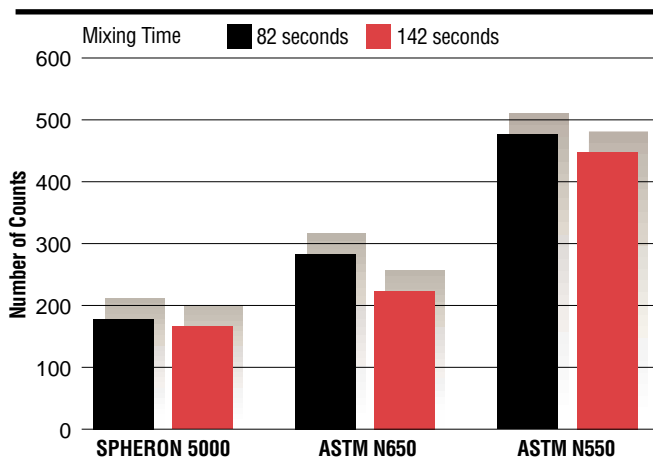
SPHERON 5000 carbon black and other custom carbon black products have been specially developed by Cabot's Industrial Products business as part of the company's ongoing commitment to exceed existing market needs and promote solutions for future product design and processing challenges.



A way to demonstrate the excellent dispersibility of SPHERON 5000 carbon black is by measuring the compound dispersion as a function of mixing time. This comparison is shown below and done for SPHERON 5000 carbon black vs. ASTM N650 and ASTM N550 at equal hardness in an EPDM test compound (100 phr EPDM, 75 phr oil, 120 phr for N550, 125 phr for N650, 130 phr for SPHERON 5000).

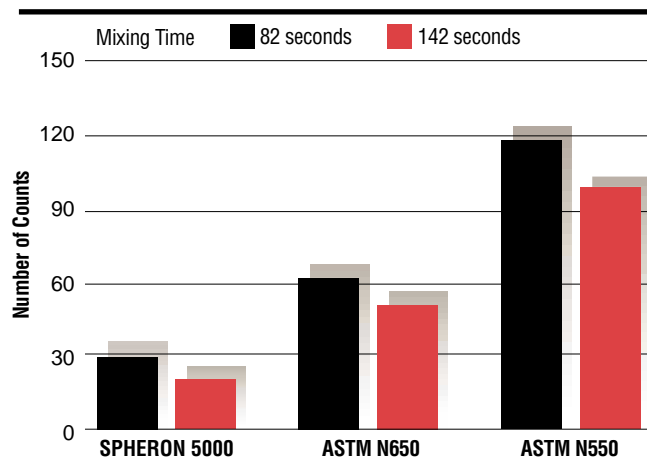
## Mixing Time vs. Tape Dispersion

(100-150 µm defect size class)



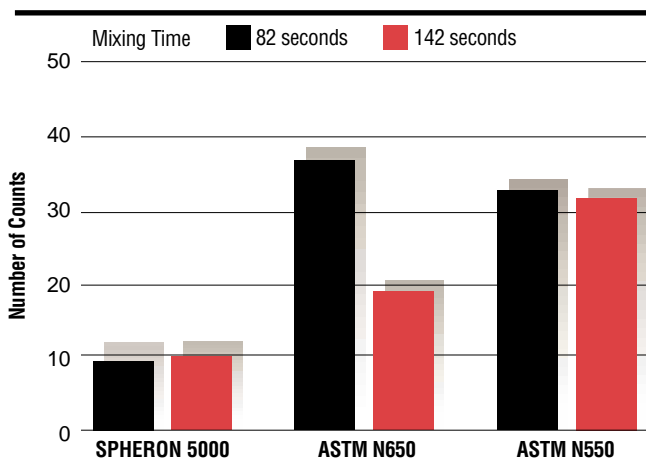
## Mixing Time vs. Tape Dispersion

(150-200 µm defect size class)



## Mixing Time vs. Tape Dispersion

(>200 µm defect size class)



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