

PROPEL™ E3 carbon black



GENERAL DESCRIPTION

PROPEL™ E3 carbon black is a very high structure reinforcing carbon black with a medium surface area. Die swell and extrusion shrinkage are relatively low and extrusion appearance is good compared to other reinforcing carbon blacks. It is relatively easy to disperse with fast incorporation and excellent dispersion.

Compounds made with PROPEL E3 carbon black demonstrate a level of reinforcement similar to compounds made with ASTM N375, N339 and N347 type carbon blacks, and also show a considerable reduction in hysteresis.



PERFORMANCE FEATURES

PROPEL E3 carbon black is particularly suited for tire treads where hysteresis needs to be reduced while tread wear needs to be kept at a good level. Application examples are truck tire treads and retreads where the combination of low heat buildup, low rolling resistance and adequate abrasion resistance are vital to the tire end user.

PROPEL E3 carbon black can be used for passenger car and light truck tire treads that also contain silica. The product has low hysteresis and high stiffness, which allows a lower silica blend ratio, and has a positive impact on compound mixing, processing and tread wear.

Because PROPEL E3 carbon black has high stiffness and low hysteresis at medium surface area, the product is also very suitable for tire side wall and under-tread applications.



TYPICAL TIRE APPLICATIONS

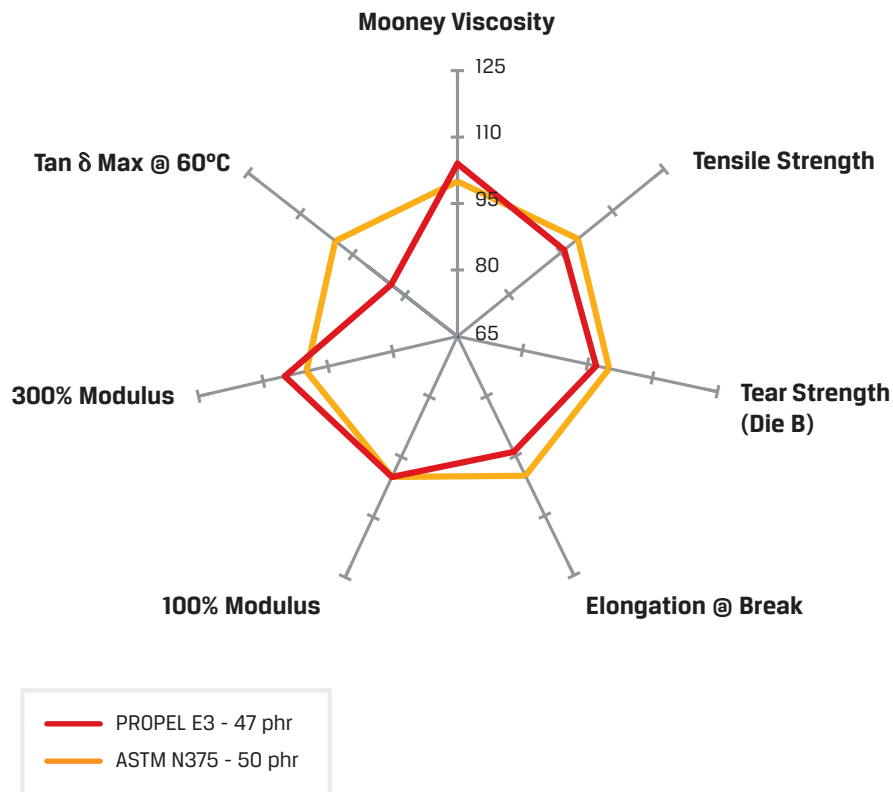
- Treads of medium and heavy commercial vehicles, light commercial, SUVs and passenger cars
- Side wall and under-tread

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TECHNICAL DATA

PROPEL E3 carbon black offers ASTM N375, N339 and N347 carbon black series level of reinforcement at considerable reduction in hysteresis. A phr loading adjustment can be used for optimizing the balance in stiffness, reinforcement and hysteresis.

Test Formulation: 80 NR / 20 BR



NORTH AMERICA
Cabot Corporation
1095 Windward Ridge
Parkway
Suite 200
Alpharetta, GA 30005
USA
TEL +800 472 4889

SOUTH AMERICA
Cabot Brasil Industria e
Comércio Ltda.
Rua do Paraíso 148-5th floor
Sao Paulo - SP, Brazil
Paraiso CEP.: 04103-000
TEL +55 11 2144 6400
CUSTOMER SERVICE
0800 195959

EMEA*
Cabot EMEA Business Service Centre
SIA Cabot Latvia
101 Mukusalas Street
Riga, LV-1004
Latvia
TEL +371 67050700
*Europe, Middle East and Africa

CHINA
Cabot China Ltd.
558 Shuangbai Road
Minghang District
Shanghai 201108
China
TEL +86 21 5175 8800

ASIA PACIFIC NORTH
Cabot Japan K.K.
Sumitomo Shiba-Daimon Bldg. 3F
2-5-5 Shiba Daimon,
Minato-ku
Tokyo 105-0012
Japan
TEL +81 3 3431 1770

ASIA PACIFIC SOUTH
PT. Cabot Indonesia
Talavera Office Park
Jl. Letjen TB Simatupang
Kav 22-26, Cilandak
Jakarta 12430
Indonesia
TEL +62 21 27584100

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