

Pirelli – Benchmark tests on All seasons tires – Braking Tests

Créateur de confiance



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CONFIANCE



Pirelli – Benchmark tests on All seasons tires

Tests on All-season tires Braking Tests Dry Braking



Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C Content

- Timing
- Staff
- Equipment
- Tire list
- Test protocol
- Test conditions
- Results : Braking Distance



Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C Timing

Date of the test: Monday 18th of January 2021

• Track : Idiada – Barcelona - Spain.

Type of test: Comparative dry braking



Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C Staff

• 1 Engineer performing dry braking

• 2 tire fitters to mount the tires and to perform tires change during the test.



Pirelli – VW Golf – 205 / 55 R16 A/S – 20CPCEXT-181-C Equipment

- Air and track temperature sensor.
- 1 Racelogic Vbox 100 Hz to measure braking distance.
- Wind speed follow up.
- 1 lift.
- 1 vehicle VW Golf 5 doors with Engine 1.5L TSI 150 HP with automatic gearbox.
- Vehicle's load : 1 driver
- Breaking in of all tires for 100 km at 80 kph with 1 driver + 1 passenger RF + 2 passengers and 40 Kg rear.
- During the test, the driver does not know which tires are mounted on the vehicle.



Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C Tire List

PIRELLI	Cinturato All Season SF2	205/55 R16 94V	DOT 1XHB K104L 4820
BRIDGESTONE	Weather Control A005 Evo	205/55 R16 94V	DOT VR8K V4J 4520
GOODYEAR	Vector 4 Seasons Gen 3	205/55 R16 94V	DOT A50F YF1R 4220
MICHELIN	CrossClimate +	205/55 R16 94V	DOT HCWC 0JYX 2720

Tires have been provided by PIRELLI



Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C – Braking Test protocol

Type of test:

Dry braking distance measurement: from 100 to 10 kph, start of braking at 105 kph + 3 kph

Surface : dry asphalt

• Tire Pressure:

- Front : 2,4 bar.

- Rear : 2,4 bar.



Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C – Braking Test conditions

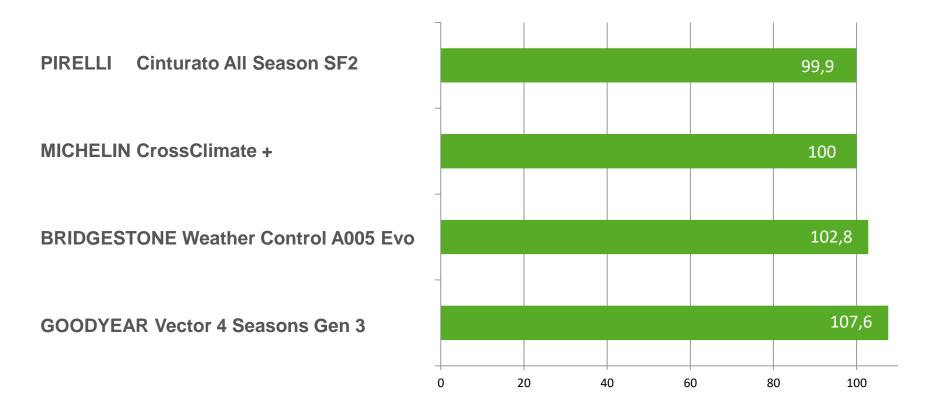
- Number of dry braking: 3 performed, 2 are validated for the test.
- Temperature :
 - Air: between 14,4° and 8,1°C
 - Dry track: between 8,4° and 11,8°C
- Wind speed:
 - 100 % of time with wind speed less than 1 m/s.
- Tire set validation :
 - Dry braking standard deviation less than 0,7 %. Difference mini/maxi: 0,5 meter

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Pirelli – VW Golf – 205/55 R16 A/S – 20CPCEXT-181-C – Braking Results – Dry braking

Dry braking distance (%) - 100 - 10 kph



Min / max traction distance's difference between the best and worst: 2,77 meters