06.04.2023

Test results of emission analysis SPEED CUSHION QUARTET

red

Concentration of VOC [µg/g] - 537
Concentration of FOG [µg/g] - 2243

PAH in general [µg/g] - 9-Butyl-1,2,3,4-tetrahydroanthracene - 15,8
*PAH dangerous [µg/g] - 0

white

Concentration of VOC [µg/g] - 1051
Concentration of FOG [µg/g] - 4071

PAH in general [µg/g] - Benzene, 1,1'-(3-methyl-1-propene-1,3-diyl)bis-;-11,2
6-Isopropyl-1,4-dimethylnaphthalene; - 10,1
9-Butyl-1,2,3,4-tetrahydroanthracene – 2,0
*PAH dangerous [µg/g] - 0

black

Concentration of VOC [µg/g] - 929
Concentration of FOG [µg/g] - 2918

PAH in general [µg/g] - 0
*PAH dangerous [µg/g] - 0

*PAH dangerous – most hazardous PAHs identified by the US EPA, the US Agency for Toxic Substances and Disease Registry (ATSDR), and the European Food Safety Authority (EFSA) due to their carcinogenicity or genotoxicity.

- acenaphthene
- acenaphthylene
- anthracene
- benz[*a*]anthracene
- benzo[*b*]fluoranthene
- benzo[*j*]fluoranthene
- benzo[*k*]fluoranthene
- benzo[*c*]fluorene
- benzo[*g*,*h*,*i*]perylene
- benzo[*a*]pyrene
- benzo[*e*]pyrene
- chrysene
- coronene
- cyclopenta[*c*,*d*]pyrene
- dibenz[*a*,*h*]anthracene
- dibenzo[*a*,*e*]pyrene
- dibenzo[*a*,*h*]pyrene
- dibenzo[*a*,*i*]pyrene
- dibenzo[*a*,*l*]pyrene
- fluoranthene
- fluorene
- indeno[1,2,3-*c*,*d*]pyrene
- naphthalene
- phenanthrene
- pyrene

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Classifications VOC:
Volatile organic compounds (VOCs) - compounds up to n-C25
Semi-volatile organic compounds (Fog) - volatility range from n-C14 to n-C32

Emission analysis of VOC, Fog and PAHs were determined using gas chromatography coupled with mass spectrometry (GC - MS, Agilent 8890 GC System).

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