Measurement of volatile compounds (VOC/FOG) according to VDA 278 (Daimler Chrysler – PB VWL 709)

VDA is the German Quality Management System (QMS) for the automobile industry (Verband der Automobilindustrie). The VDA 278 characterizes the emissions from plastic/rubber materials intended to use in automotive industry. This analysis required thermal desorption GC-MS and include two parts:

- The first part describes the volatile organic compound analysis (VOC) with thermal desorption at 90 ºC for 30 minutes. The peaks are calibrated with and compared to a toluene standard.

- The second part describes the semi-volatile organic compound analysis (FOG) with thermal desorption at 120 ºC for 60 minutes. The peaks are calibrated with and compared to a n-hexadecane standard.

This VDA 278 analysis gives information about the material specific emissions, additives and their emission value. This test is fully accredited and uses the newest technology concerning thermal desorption and chromatography. ITC-Zlin is participating regularly into inter-laboratory testing concerning this analysis.

Contact person:
BSc. Franky Puype, phone: 00420 577 601 704, e-mail: fpuype@itczlin.cz