

# **SAFETY & CRASHWORTHINESS DATA SHEETS**

04 November 2011

# Attachment 0050

The data requested below will be used in conjunction with other data requested (for example, CAD models) to assess Safety and Crashworthiness performance.

## **Gross Vehicle Structure Data**

- 1) Vehicle structure CG location (total system)
- 2) Vehicle structure total mass and mass distribution by axle (total system)
- 3) Vehicle moments of inertia (total system)

## **Seat Data**

- 1) Seat energy absorption mechanism and characteristics (where applicable)
- 2) Seat track travel envelop information (where applicable)

## **Seat belt Data**

- 1) Retractor
  - a. Retractor features (w/ load limiter, pre-tensioner)
  - b. Load limiter property (load limits)
  - c. Pre-tensioner property (pay-in time function, or length vs. time)
- 2) Buckle
  - a. Features (w/ pre-tensioner, if so, pay-in time function)
- 3) Anchor points
  - a. Features (w/ pre-tensioner, if so, pay-in time function)

## **Steering Wheel/Column Data**

- 1) Rim stress/strain curves for loading and unloading tests
- 2) Column stress/strain curves for loading and unloading tests
- 3) Characteristics of column stroke (F-d curves of energy absorption, if applicable)

## **Instrument Panel/Interior Compartment**

- 1) Material properties for foams and plastics used for interior sub-systems such as instrument panel, header, A-Pillar, B-Pillar, etc. (to include stress/strain curves for dynamic loading & unloading conditions)