Brussels, 12 November 2010

The Technical Committee of the European PET Bottle Platform (EPBP) was requested to evaluate the effect of Mitsubishi Gas Chemical MXD6 co-injected bottles on the quality of recycled PET. The co-injected bottles consist of a thin layer of MXD6 as the middle layer of a 3-layer construction with no adhesive tie layers, with a content of approximately 5% MXD6. Data supplied from tests carried out according to the EPBP testing protocol demonstrated that processing conditions and bottle performances are not affected by high levels of Mitsubishi Gas Chemical co-injected bottles. Residual colour is the only limiting factor, although the MXD6 middle layer can be partially removed (by air elutriation) from the inner and outer PET layer during the PET washing process.

If the co-injected bottle is used only under the following conditions:

(a) the preform must be injected so that the MXD6 layer is only in the bottle wall with a maximum of 5% Nylon MXD6;

(b) the bottle must be 3-layer construction with no tie layers;

(c) the concentration of these bottles is limited at a level up to 2% in the PET bottle market. This market penetration rate is taking local accumulation effects into consideration.

Based on the assessment's outcome and current market's knowledge in 2010 the European PET Bottle Platform (EPBP) concludes that Mitsubishi Gas Chemical MXD6 co-injected bottles coating will have no negative impact on current European PET recycling.