

Bleach-resistant bottles in rPET

“SIPA HAS BEEN WORKING ON DEVELOPMENT OF ONE-LITER BOTTLES IN rPET THAT CAN BE USED FOR PACKAGING HOUSEHOLD BLEACH.”

These bottles are normally blow molded in high-density polyethylene, HDPE, but in-house tests with different concepts have shown that it is also possible to use rPET with very good results.

One of the concepts, which uses rPET compounded with titanium dioxide, TiO_2 , to provide a clean white color, resisted duration tests at 45°C for 2 weeks when filled with bleach containing 4.5% sodium hypochlorite, which produces its bleaching effect through oxidation.

Other concepts are also being considered. The development, thanks in part to the performance of the XTREME preform injection molding platform, has achieved very good chemical resistance and provides excellent aesthetics when blown on an SFL machine.

