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(54) Title: A PROCESS SUITABLE FOR RECYCLING A MIXED POLYMER WASTE MATERIAL

(57) Abstract: The invention pertains to a process suitable for recycling a mixed polymer waste material, the waste material comprising polyurethane (PUR) items, and mechanically connected to these polyurethane items polyester items that contain a dye, the process comprising the consecutive steps of dispersing the mixed polymer waste material in 2-(2-ethoxyethoxy) ethanol (DGME), then leaving the polymer waste material dispersed in the DGME until at least part of the dye is extracted from the polyester into the DGME, and at least 90% (w/w) of the PUR items is dissolved in the DGME, separating the polyester items from the DGME containing the said at least part of the dye and the dissolved PUR items, and lastly re-using the polyester for producing a new product.



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