



ABSTRACT



A polyester beer bottle comprising a bottleneck, a body and a bottom of the bottle, which are once blow molded and shaped with polyester blank, in which arc portion in a vertical section extended from the joint of shaped bottom and body of the bottle to the joint of a plane of the bottom has a radius ranging over 15-25mm; an arc radius in a vertical section of the concave quaquversal portion projecting inwards at a bottom surface of said bottle is in a range of 20-35mm, and the distance between a top of the concave quaquversal portion to the plane of bottom is in a range of 7-15mm; an outward projecting support flange portion is formed at the joint between said concave quaquversal portion and the bottom plane of the bottle, a height of the flange portion is in a range of 0.1-5mm; and a side-face of the bottle is connected to said concave quaquversal portion at the bottom of the bottle via the transition arc portions respectively having different radius, in which the radius of first transition arc is in a range of 3-8mm, and the second transition arc radius is in a range of 0.5-2mm. The ratio between the maximum outer diameter of the bottom of the bottle and the diameter of the flange portion on said bottom plane of the bottle is in a range of 1.2-1.7.

(Fig. 1)