

Title (en)  
METHOD FOR PRODUCING A CONTAINER AND CONTAINER HAVING BARRIER PROPERTIES

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES BEHÄLTERS UNTER VERWENDUNG EINES FORMWERKZEUGES DAS UNTERSCHIEDLICHE WÄRMEBEREICHE AUFWEIST

Title (fr)  
PROCEDE DE PRODUCTION D'UN CONTENANT, ET CONTENANT PRESENTANT DES CARACTERISTIQUES DE BARRIERE

Publication  
**EP 1286818 A2 20030305 (DE)**

Application  
**EP 01943154 A 20010522**

Priority  
• DE 0101995 W 20010522  
• DE 10027924 A 20000606

Abstract (en)  
[origin: DE10027924A1] Blow molding segments (40, 41) are tempered to a mean surface temperature of 40 deg C-170 deg C. The base insert (42) is held at a temperature below this level. An Independent claim is included for the container with gas barrier properties, which is characterized by a BIF value exceeding 2, where BIF is the barrier improvement factor, measured by comparison with standard material (PET). Barrier component is distributed homogeneously in the main material of the container, its weight being up to 30% of that of the main component. Container volume is up to 1 l. Neck length is up to 80% of the maximum main body diameter. Preferred features: Cooling time in the base insert region is at least 1.2 seconds. Base contour flattening after blowing, is at most, 25% of centrum to base surface spacing, before extraction from the mold. Standing ring thickness is no less than 1.2 mm. Coloring is included. A substance fixes permeating gases. At the external thread around the mouth, vent slots are included, with rounded contours. Thread internal diameter over the mouth section is reduced in comparison with a standard thread. The mouth is designed to take a crown bottle cap or a swing clip bung closure. A side wall is locally- and inwardly curved to the extent of 1%-2%. Internal curvature of the sidewall is about 1.4 %. Two circles defining curved profile at the basal dome angle are offset from a longitudinal axis by at least 3 mm. A curved profile in the region of the dome angle of the base, is defined by two circles with eccentric centers, relative to a vessel longitudinal axis. Offset amounts to at least 3 mm. A side wall of the container starts from a base section and runs to a vessel shoulder conically. The side wall steps into the vessel shoulder.

IPC 1-7  
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IPC 8 full level  
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