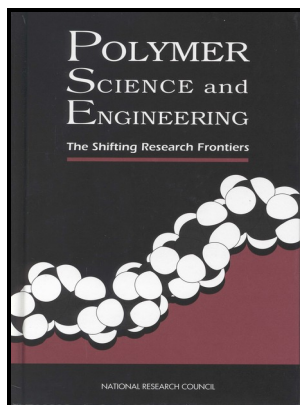


# Effect of morphology and microstructural interfaces on the properties of high density polyethylene blow moulded containers

- - Influence of the microstructural morphology on the mechanical properties of high



Description: -

-effect of morphology and microstructural interfaces on the properties of high density polyethylene blow moulded containers

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Notes: Thesis(Ph.D.) - Loughborough University of Technology 1980.

This edition was published in 1980



Filesize: 4.11 MB

Tags: #Development #and #analysis #of #gas #barrier #properties #of #microfibrillar #polymer

**US5628950A**

This process improved the impact resistance of the article, mold release and rate of crystallization compared to unmodified PET. Effect of Skin-Core Hierarchical Structure on Dielectric Constant of Injection Molded and Cast Film Extruded Liquid Crystalline Polymer.

**A high**

Macromolecules 2016, 49 19 , 7387-7399.

**British Library EThOS: The effect of morphology and microstructural interfaces on the properties of high density polyethylene blow moulded containers**

Light scattering is influenced by the shape of the interface between the resins, with spherical interfaces scattering more light than planar interfaces. Realizing mechanically reinforced all-polyethylene material by dispersing UHMWPE via high-speed shear extrusion.

**US20060214331A1**

Journal of Vinyl and Additive Technology 2018, 24 2 , 103-108. Dynamic mechanical properties reveal that the storage modulus has a permanent reduction after water exposure while the glass transition temperature is mostly recovery after drying the specimens. Results indicate the range of microwave power output to be used for better strength of blow moulded bottles.

**Surface layer morphology of the high fluence Fe implanted polyethylene**

In this paper, the hinge plate method is used to calculate and analyze the simply supported hollow slab of a certain arch bridge. Google has not

performed a legal analysis and makes no representation or warranty as to the accuracy of the list.

### **Structure, Deformation, and Failure of Flow**

Commercial production of polyethylene commenced in England during the early 1940s using a free radical process operating at very high pressures 30,000 to 50,000 psi. Core—Shell Fibers Electrospun from Phase-Separated Blend Solutions: Fiber Formation Mechanism and Unique Energy Dissipation for Synergistic Fiber Toughness.

### **US20170121473A1**

The effects of the initial peroxide concentration, mass throughput, and, especially, extruder size on the final weight-average molecular weight and poly-dispersity index of the product are studied. We have found that the values of the Young and dynamic moduli are very similar since damping of these materials is minor at room temperature. Non-isothermal plug only thermoforming tests were carried out using identical plug designs for various combinations of plug and sheet materials.

### **Morphology Density Relation**

Worn surfaces of the samples were observed under scanning electron microscopy equipped with an energy dispersive detector.

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