

Locking Device for Spectacles

Company: OBE Ohnmacht & Baumgärtner GmbH



Application Sector: Consumer Goods

Requirements: For this revolutionary and extremely small locking device for spring hinges in spectacles the minimized size is combined with a complex shape. For a safe locking function the geometry of the part had to be designed with special features and produced in large volumes.

Benefits: The component was designed from the beginning to be made using MIM, as its weight of only 0.028g and high precision, meant only MIM could guarantee the necessary specification. This is also due to the huge quantity per year needed using a 32 cavity mould.

Product Density: (g/cm³) 7.9

Product Tensile Strength: 510 MPa

Product Hardness: 120 HV10

Weight: 0.028g / 0.046g depending on version

Finishing: Only tumbling operation is needed

