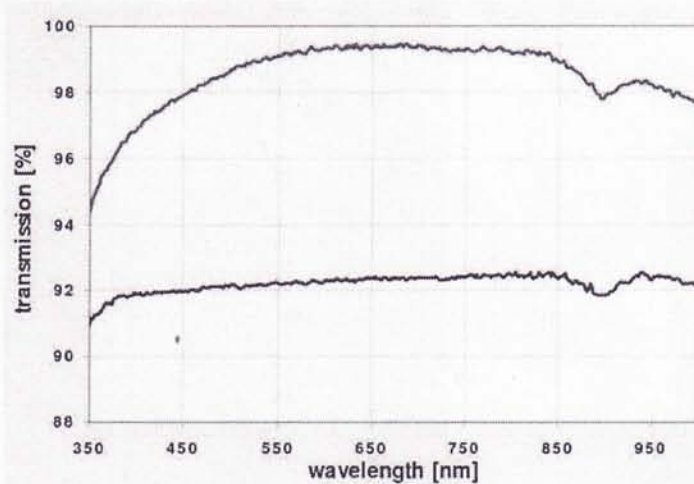




NANO-motheye AR-patterning on PMMA



Transmission of PMMA sample before (blue) and after (red) both side plasma modification



AFM-surface scan

MOTIVATION

Today transparent PMMA (Acrylic) is the most frequently used polymer in precision optics. Cost-effective antireflection properties are required for several applications.

DESCRIPTION

Broadband antireflection effect for PMMA with motheye nano structure.

SUBSTRATE

Transparent PMMA, planar, non-planar and pre-structured surfaces, injection moulded acrylic optic parts

DEPOSITION PROCESS

Low-pressure plasma process based on direct Ion-etching (without holographic or lithographic steps)
optional hard coat and hydrophobic top layers

SPECTRAL CHARACTERISTICS

broadband AR-effect on PMMA

PROPERTIES

fingerprint and scratch sensitive
Temperature stability according to acrylic substrate

QUALITY ASSURANCE

Permanent process and manufacturing control guarantees specifications. We use sophisticated measuring instruments and design software. Please call our coating team to discuss your application.

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(JENOPTIK Polymer Systems GmbH reserves the right to amend or withdraw specifications without notice, NANO-motheye patent application DE 10241708.2 by Fraunhofer IOF)