

UV Nanoimprint Starter Kit

Fact Sheet
Technology

Application:

- Test Template for process development
- Resist qualification

Description:

UV Nanoimprint is a mechanical molding technique. A template made from quartz with a 3D relief is brought into intimate contact with a UV-curable resist spin-coated on top of a substrate. Applying the replication process at room temperature under low imprint pressure, features are filled within seconds due to the low viscosity of the imprint resist. The resist is hardened via UV-light through the backside of the template. Finally substrate and template are separated and the cured resist relief can be used for further processing.

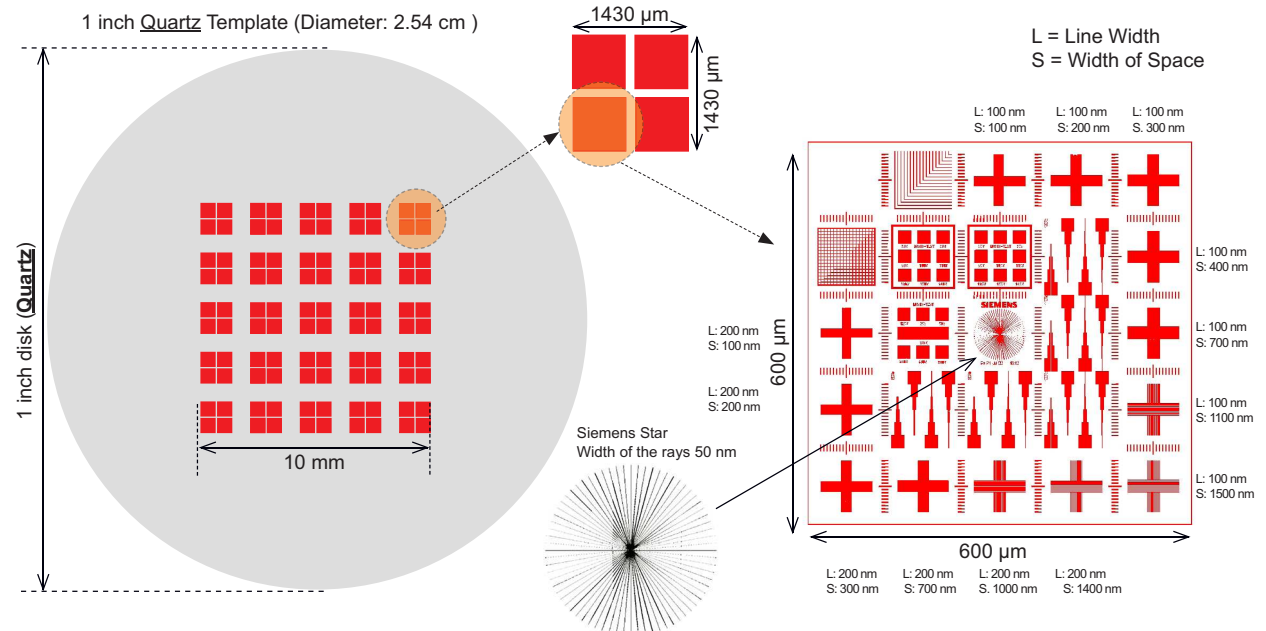
Proposal:

AMO offers a starter kit for researchers interested in starting their own experiments in UV Nanoimprint.

The starter kit consists of a standard 1" quartz template with an active area of 60 mm² containing test structures ranging from 50 nm to 20 μm. If requested a PDMS template for Soft UV Nanoimprint can be supplied instead. A sample of 100 ml AMONIL UV-curable imprint resist is included along with a datasheet for your first experiments.

Specification:

Parameter	Starter Kit Rigid	Starter Kit Soft
Template	1", quartz, round, 0.5 mm thick	4", PDMS, 3mm, bonded to glass plate
Template Active Area	60 mm ²	60 mm ²
Template Features	50 nm – 20 μm	50 nm – 20 μm
Template Feature Depth	100 nm	Thickness on request
AMONIL Resist	AMONIL, 100 ml	AMONIL, 100 ml



Other dimensions are available on request ■ Contact: Christian Moormann ■ moormann@amo.de



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