

# Pushing the Boundaries of 3D Printing

## Injection Molding with Ultracur3D® RG 3280 for DLP and LCD

3D printed mold inserts are mainly used in prototype toolmaking (rapid tooling) but can produce near-series functional parts of low to medium quantities (approx. 100-1000) as well. This is especially useful to quickly identify critical part geometries during mold and end use part development.

### Proof of Printability:

Ultracur3D® RG 3280 proves to be a very good option to produce solid/massive tooling geometries. Printing results demonstrate very high accuracies in the parts produced and are highly repeatable.

### Proof of Applicability:

Ultracur3D® RG 3280 is generally machinable and suitable for mechanical processing by lathe or mill. Due to the excellent dimensional accuracies achievable in DLP processing, fitting the tool inserts to the mother pockets works well. Tools printed in Ultracur3D® RG 3280 survive the harsh mechanical loads associated with tool clampdown.

### Proof of Work:

#### Full testing results available for following thermoplastics:

PP GF30, ABS, PA6.6 GF25, POM, PC, PBT GF30

EN



DE

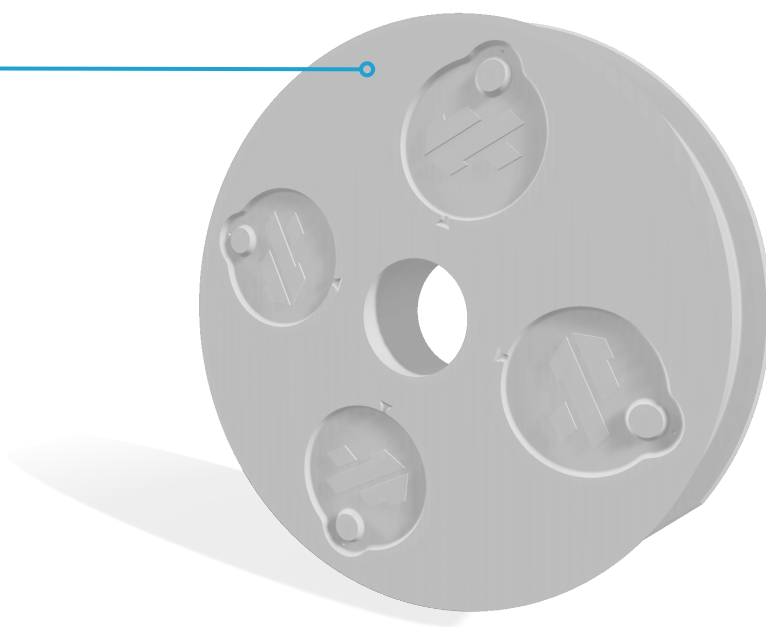


## Ultracur3D® RG 3280

### Ceramic-filled resin with exceptionally high stiffness and temperature resistance

Evaluation of DLP 3D Printing for Injection Molding Inserts with Ultracur3D® RG 3280 - White Paper

- ✓ Superior stiffness
- ✓ Superior temperature performance
- ✓ High suspension stability
- ✓ Very fast and easy to print
- ✓ TPO-free
- ✓ Biocompatible
- ✓ Exceptionally chemical resistant
- ✓ Advanced thermal properties available



Find out more:



Extended TDS



Injection Molding -  
Guideline



Moldflow Simulation -  
Guideline



Use Case