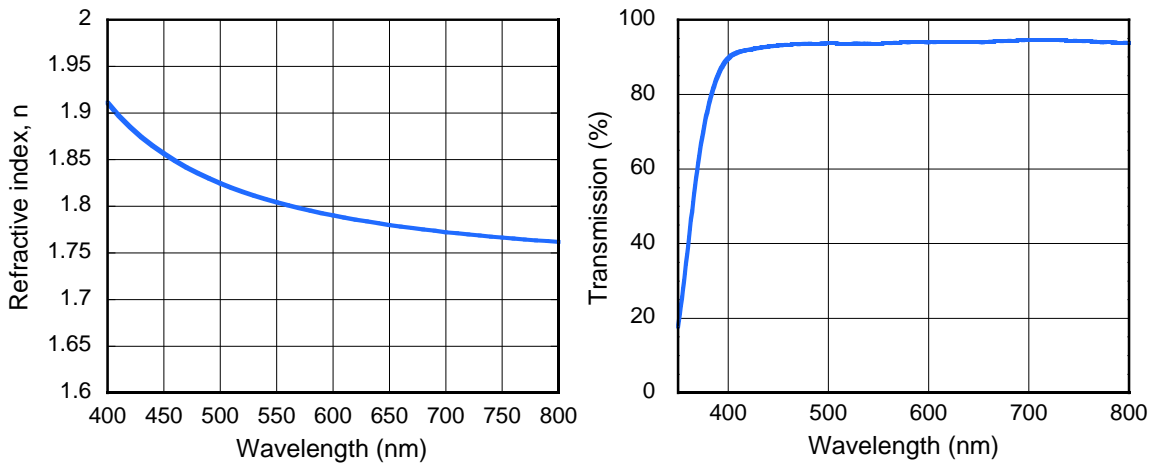




### HighRI-CP5-Thermal

(Thermally Curable High Refractive Index Resin without nanoparticle fillers)

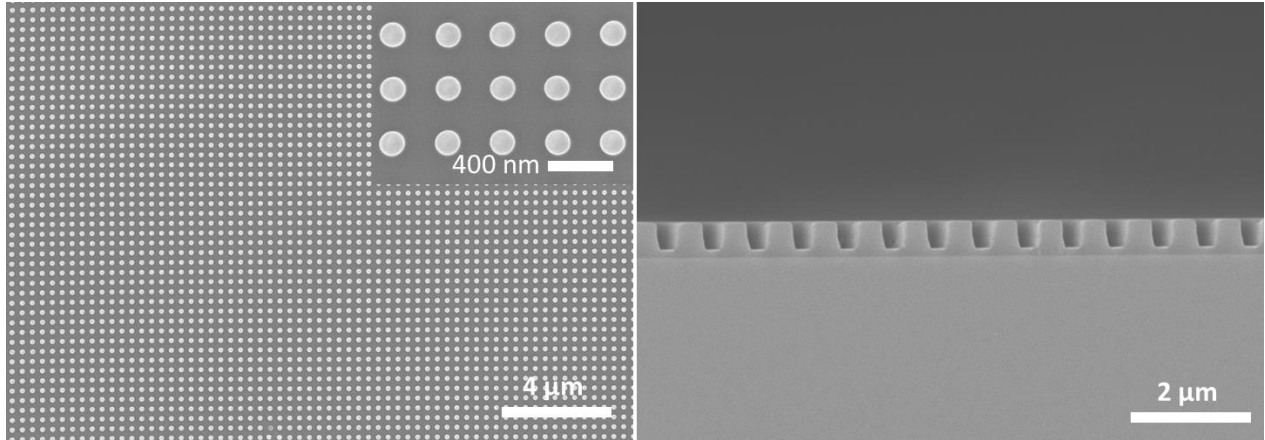
CP5-Thermal is a purely organic resin, spin on solution, specifically developed for producing high refractive index films.



*Refractive index and optical transmission of HighRI-CP5-Thermal resin*

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| <b>Chemical type</b>                      | Acrylates                            |
| <b>Refractive index @ 590 nm</b>          | 1.79                                 |
| <b>Appearance</b>                         | Liquid phase                         |
| <b>Compatible Solvents</b>                | Cyclopentanone/Toluene/Chlorobenzene |
| <b>Transparency (@ 400nm)</b>             | > 90% (1 μm thick film)              |
| <b>Dispensing Method</b>                  | Spin coating                         |
| <b>Nanoimprint Lithography Capability</b> | Yes                                  |
| <b>Imprinting method</b>                  | Thermal                              |
| <b>Imprinting temperature</b>             | 100°C                                |

- The solution should be kept in the fridge.



*SEM cross-section of imprinted gratings with HighRI-CP5-Thermal*