

DM57 Technical Data Sheet

Type	Acrylate based UV curing demould resin
Viscosity	Medium - (850 cP at 25°C)
Typical curing dose	~ 42 mJ/cm ²



Description:

DM57 is a UV curing acrylate based resin optimised for the use on Stensborg Roll-2-Roll (R2R) and Roll-2-Plate (R2P) nano/micro imprint machines.

Product Features:

The DM57 is designed as a medium viscosity UV curing resin compatible with both LEDs (365-405nm) as well as iron-doped mercury lamps.

Suggested Applications

DM57 is designed as a demould resin for making working masters (WM) and imprinting templates for UV nanoimprint lithography. The resin is compatible with several photoresists e.g. Shipley Microposit S1800 series photoresist. DM57 works extremely well with the following replication resins X29 and X166b.

Substrates:

DM57 will, after curing, adhere to a variety of substrates including, but not limited to PET, PVC, and PC. Please note that substrate surface treatment or lack thereof may affect the adhesion properties of DM57.

Storage and Handling

Handling

Protective gloves, goggles, and appropriate protective gear should be worn at all times when handling DM57. In addition, the common procedures for handling chemicals should be followed according to the material safety data sheet (MSDS) of the resin.

Storage

Shelf life is at least 12 months from the date of manufacture in their original containers provided that they are stored at temperatures ranging from 5°C to 25°C and protected from direct sunlight.