

A close-up, angled view of a silicon microchip, showing a grid of square dies with intricate circuit patterns. The lighting is warm, creating a golden-yellow glow across the surface.

UV SOLUTIONS

USI

ULTRON SYSTEMS, INC.

Models UH102/UH102-12

UV Curing Systems

Ultron Systems' Models UH102 and UH102-12 UV Curing Systems offer inexpensive solutions for the curing of UV films in easy to use benchtop packages, without sacrificing control or versatility. These units share many of the features with their semiautomatic and automatic siblings, the Models UH101 and UH201, including a nitrogen blanket to assure complete curing of the UV adhesive, a microprocessor-based programmable controller, a lamp intensity measurement port, and a serpentine-style grid lamp for even, consistent UV-exposure. They are ideal for low to mid-volume production and R&D applications. The Model UH102 accepts wafers and film frames up to 8-inches, while the Model UH102-12 accommodates up to 12" wafers on their film frames.



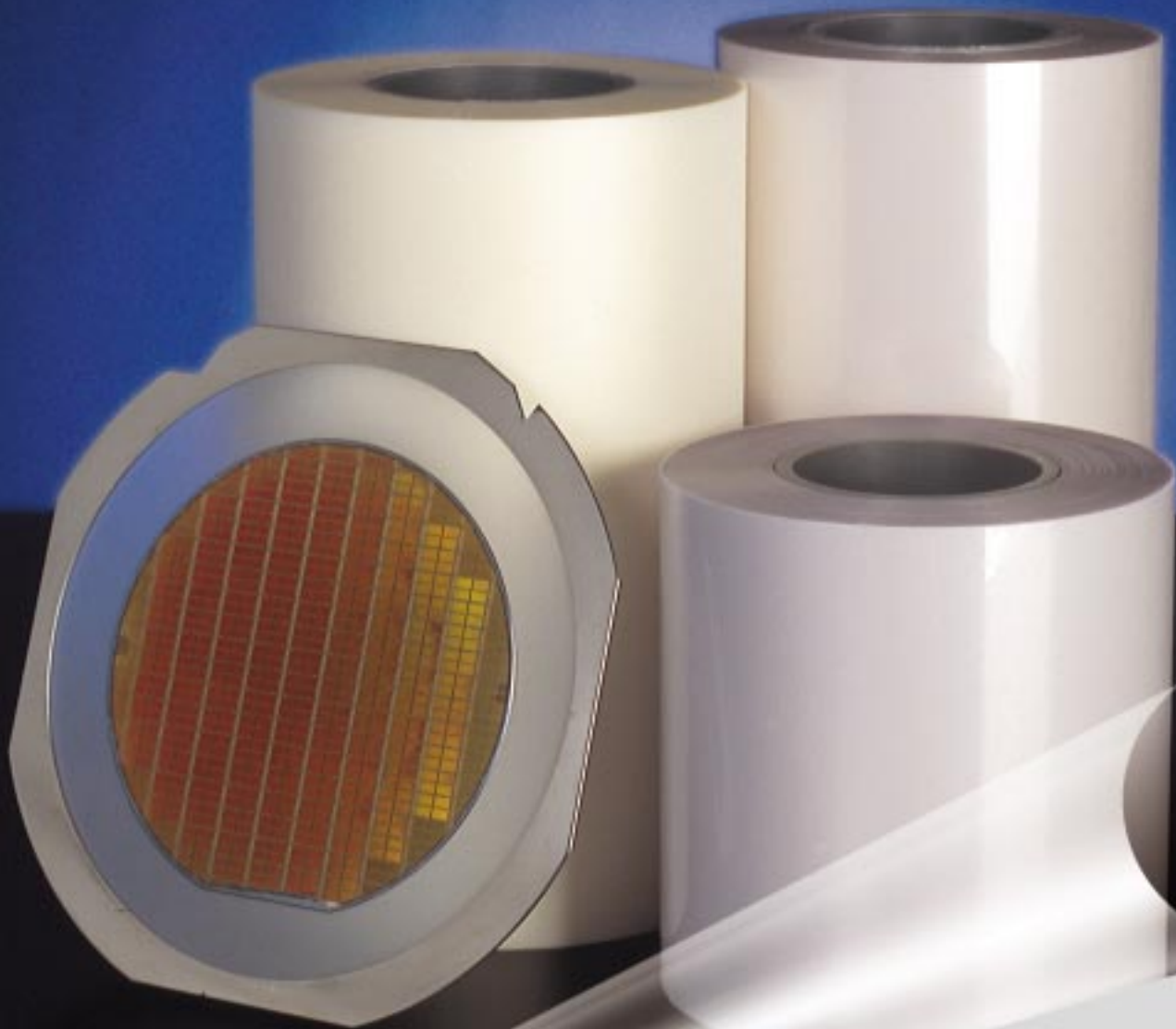
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Ultron Systems' UV Adhesive Plastic Film offers the best of both worlds: high adhesive strength -- for the securing of wafers/substrates -- that is dramatically reduced after exposure to UV light for easy removal. UV film is ideal for any process involving thin/fragile die where it significantly increases yield by lowering the die stress common to conventional tapes. As process demands become stricter, UV film is often the only solution for newer generation devices that require even more fragile/thin die, where removal from standard films simply is not possible. Ultron offers the widest selection of UV film available, with different base materials, adhesive strengths, and thicknesses, to meet these specific process requirements.



EQUIPMENT SPECIFICATIONS

Model UH102

Model UH102-12

Dimensions: 16"H x 19"W x 25.5"D

16"H x 24.5"W x 29.5"D

Weight: 110 lbs.

130 lbs.

Power: 110 VAC, 12 A, 50/60 Hz
N₂: 30 psi @ 0.5 CFM (min.)
UV Lamp: Mercury Vapor
Wavelength: 254.7 nm
Intensity: 25 mW/cm²

FILM OVERVIEW

Material: PVC or Polyolefin
Thickness: 80 - 250 μ
Sensitivity: 250 - 450 nm
Adhesive Strength:
Before: 260 - 840 g/25mm
After: 18 - 27 g/25mm

