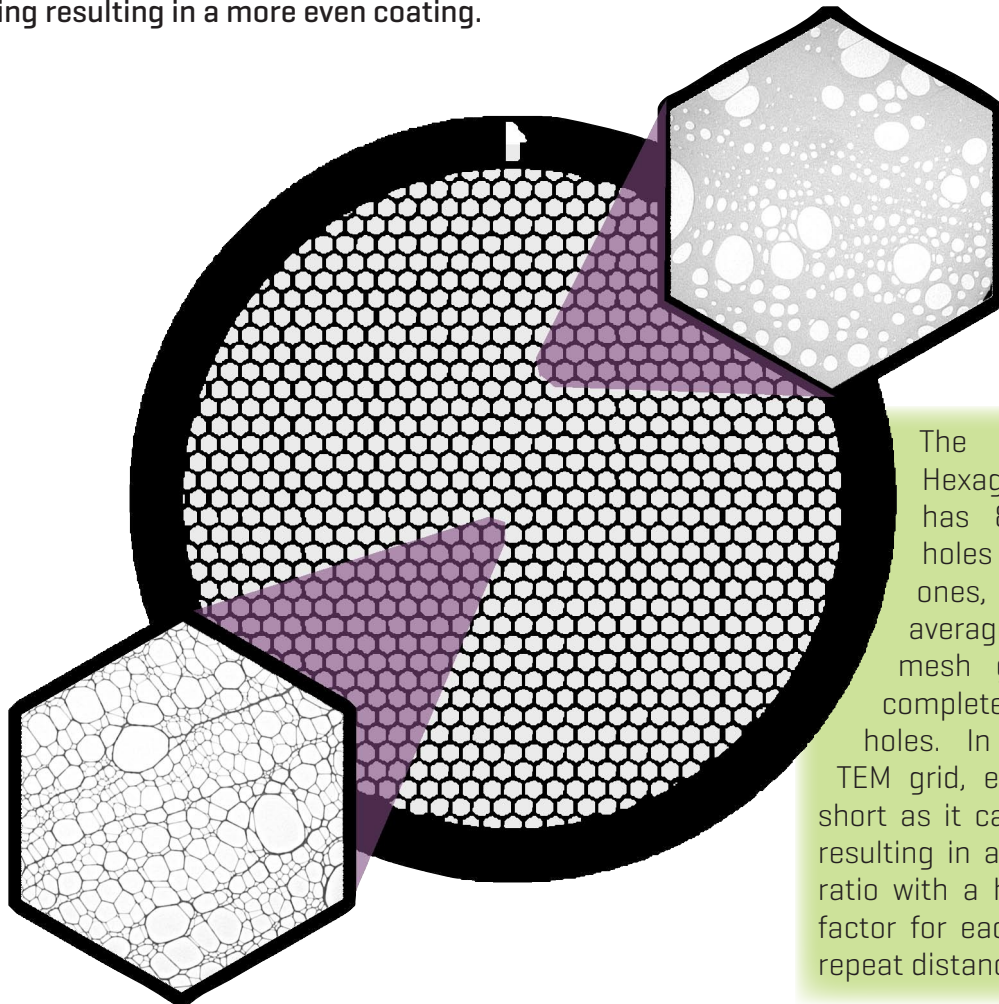


EM RESOLUTIONS
Supporting Electron Microscopy

Support films on Hexagonal mesh grids - get the best from your TEM

EM Resolutions Ltd offers a range of high quality Holey and Lacey support films on Hexagonal grids, providing improved support, whilst maximising the viewable area. During manufacture the holes for Holey and Lacey films are produced more evenly due to a better distribution of the stresses and strains during drying resulting in a more even coating.



The average 300 Hexagonal mesh grid has 847 complete holes and 78 partial ones, whereas the average 300 square mesh grid has 728 complete and 82 partial holes. In a hexagonal TEM grid, each bar is as short as it can possibly be, resulting in a high hole/bar ratio with a higher support factor for each given mesh repeat distance.

Hexagonal patterns are found widely in the natural world due to their efficient use of space. Bee's honeycomb, for example, requires less wax to construct and at the same time gains lots of strength. These natural structures have inspired designers to use them for building materials and constructions where the best use of space, greater strength and resistance to compression are required. EM Resolutions Ltd has developed a range of Holey, Lacey, continuous carbon and formvar carbon films in collaboration with Gilder Grids to provide high quality supports for TEM.

Holey & Lacey Carbon films on Hex grids

Support film	Grids	200 mesh	300 mesh	400 mesh
Holey Carbon [HC] Hx	Copper	HC200HxCu	HC300HxCu	HC400HxCu
	Gold	HC200HxAu	HC300HxAu	HC400HxAu
	Nickel	HC200HxNi	HC300HxNi	HC400HxNi
Lacey Carbon [LC] Hx	Copper	LC200HxCu	LC300HxCu	LC400HxCu
	Gold	LC200HxAu	LC300HxAu	LC400HxAu
	Nickel	LC200HxNi	LC300HxNi	LC400HxNi

Formvar/Carbon & Carbon only films on Hex grids

Support film	Grids	200 mesh	300 mesh	400 mesh
Formvar/Carbon [FC] Hx	Copper	FC200HxCu	FC300HxCu	FC400HxCu
	Gold	FC200HxAu	FC300HxAu	FC400HxAu
	Nickel	FC200HxNi	FC300HxNi	FC400HxNi
Carbon [C] Hx	Copper	C200HxCu	C300HxCu	C400HxCu
	Gold	C200HxAu	C300HxAu	C400HxAu
	Nickel	C200HxNi	C300HxNi	C400HxNi

Formvar only films on Hex grids

Support film	Grids	200 mesh	300 mesh	400 mesh
Formvar [F] Hx	Copper	F200HxCu	F300HxCu	F400HxCu
	Gold	F200HxAu	F300HxAu	F400HxAu
	Nickel	F200HxNi	F300HxNi	F400HxNi

Please note: The above part numbers are for packs of 50. If you require a pack of 25 or 100 please add the quantity after the part code e.g. F200HxCu100, HC300HxNi25.



All **EM Resolutions Ltd** support films are supplied in white grid boxes which make it easier to see the grids in the box. They are also preferable for longer term storage, being less prone to volatile components from the polymer contaminating the grids.

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