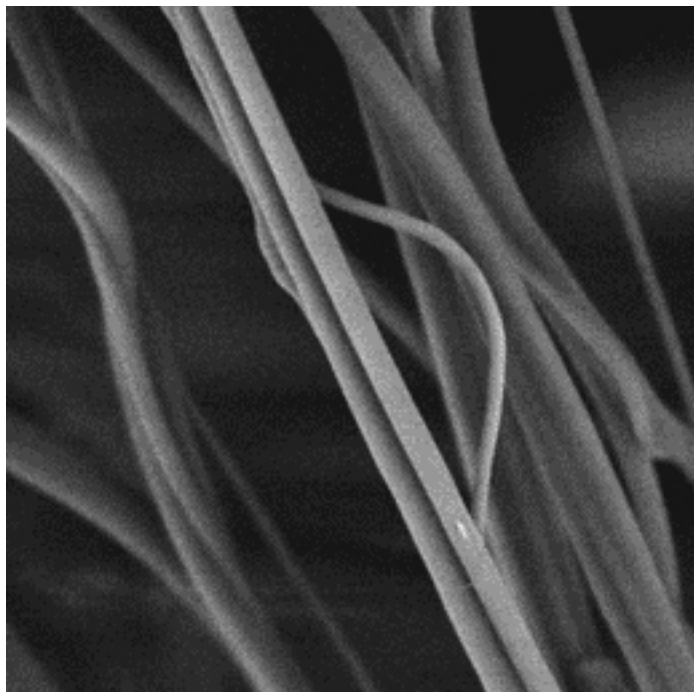


## Nano-Fibers Spun from Melt-Blown Polymers



Nano-fibers less than 0.5 micron diameter have been made from low cost polypropylene (PP), polyethylene (PET), PBT and many other polymers using a nano-fiber melt-blown extrusion die designed, developed and manufactured by The Arthur G. Russell Company, Inc. Where typical melt blown fibers average over 1 micron in size, this nano-fiber die:

- Produces fibers averaging as small as 400 nanometers.
- Has a basis weight of approximately 0.10 gram per sq. meter (gsm) and a production rate of 1200 meters per minute.
- Has the capacity to block contaminants under 0.3 microns.
- Features a multi-row die configuration offers even greater production economies or speeds.
- Is designed to operate at extrusion pressures as high as 1500 psi with 64 orifices per inch.

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# Nano-Fibers Spun from Melt-Blown Polymers

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