

Hills Melt Blown Technology

Hills proprietary technology includes the following capabilities:

- Fiber Cross-Sections
 - Homopolymer
 - Side/Side
 - Sheath/Core
 - 8 Pie Segments
 - 16 Islands-In-A-Sea
- Capable Of Operation At High Die Pressure
- Any L:D Spin Hole
- Spin Hole Sizes: 0.1mm – 0.5mm Diameter
- Die Cost Similar To Conventional Dies
- Hole Count (Holes/Inch) Vs Cross-Section:

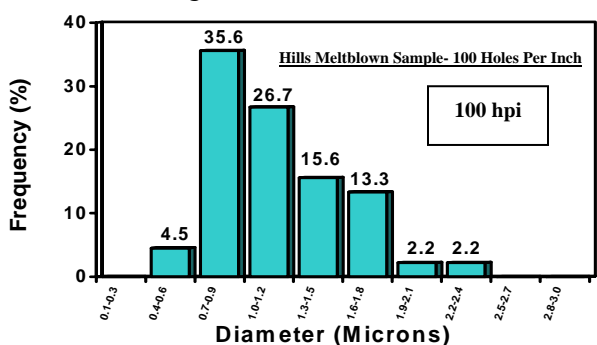
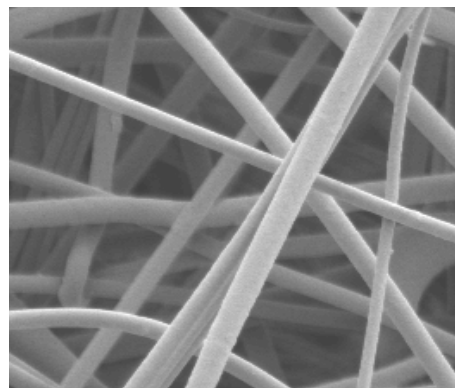
Cross Section	24 hpi	35 hpi	>100 hpi
Pie	X		
Islands-In-A-Sea	X		
S/C	X	X*	
Side/Side	X	X	X*
Homopolymer	X	X	X*

*Hills In-House Pilot Line Samples Available

- High Hole Count Enables:
 - Fine Fibers At Economic Production Rate/Meter
 - Conventional Fiber Size At Higher Production Rate/Meter

Sub-Micron Melt Blown Fibers

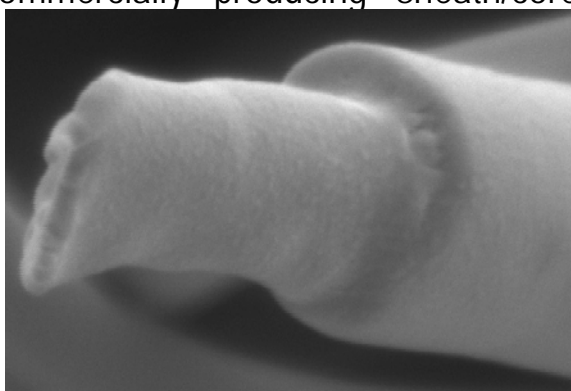
Hills Inc. is developing proprietary die designs with 100 holes per inch or greater used at an extrusion pressure of up to 1500 pounds/sq-inch (psi). When producing sub-micron fibers, the overall production rate per length of the die can be similar to standard meltblowing. This differs from conventional technology by reducing



the spinning orifice diameter and increasing the orifice L/D to generate high extrusion pressure and excellent polymer distribution at low grams/hole/minute.

Sheath Core Meltblown

Hills' equipment has been commercially producing sheath/core meltblown fibers for a variety of specialized product since 1994. Unlike previous technology, the Hills system extrudes true concentric sheath/core fibers with uniform sheaths. The photo shows a fiber with PP core and PE Sheath.



For Further Information. Please Visit Us At:

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