



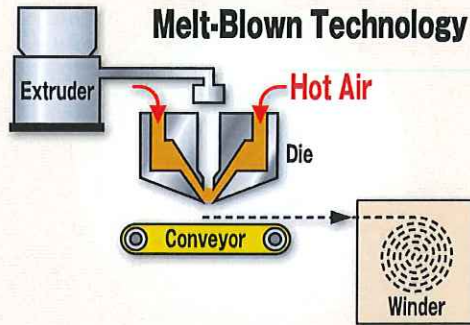
Melt Blown Nonwovens
TAPYRUS Co.,Ltd
 JAPAN



天津瀚博国际贸易有限公司
 TIANJIN HAMBURG INTERNATIONAL TRADING CO., LTD
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TAPYRUS Tailor-made Meltblown Nonwovens

Meltblown technology



SIMPLE PROCESS

- STEP 1. Put resin into extruder
- STEP 2. Melt resin at high temperature
- STEP 3. Blow melted resin with hot air from die
- STEP 4. Collect on conveyor
- STEP 5. Wind

FEATURES

- ◆Fiber diameter: 0.4 μ m-50 μ m
- ◆Basis weight: 7g/m²-400g/m²
- ◆Mean pore size: 10 μ m-50 μ m
- ◆Soft texture and well drapeness
- ◆No binders

Application



[Battery separators]

- For Lithium primary battery and Capacitor
- Durable and excellent liquid retention due to its ultra fine fibers
 - Suitable for heat resistant battery



[Liquid filters]

- For Depth filter and Pleated filter
- Remove 0.3 μ m particles or larger one
 - Suitable for Food & Beverage, pharmaceutical, semiconductor industry etc.
 - Suitable for classification of metal particle slurry
 - Meets the FDA standard



[Masks]

- For Surgical, Clean room, Hay fever, PM2.5 and Food manufacturing masks
- Bacteria filtration efficiency is 99% or more
 - Easy to breath through meets MIL standards
 - For FFP1, FFP2 and N95 standard



[Air filters]

- For Fine filter, HEPA filter
- For building air conditioners
 - High efficiency and low pressure drop



[Wet wipes]

- For Office automation equipment, Carpets and Clothing wet wipes
- Ultra fine and soft
 - Non-toxic and safe due to binderless



[Coffee filters]

- For one drip coffee filter
- Keep coffee extract for proper time
 - Prevent coffee powder from dropping into cup



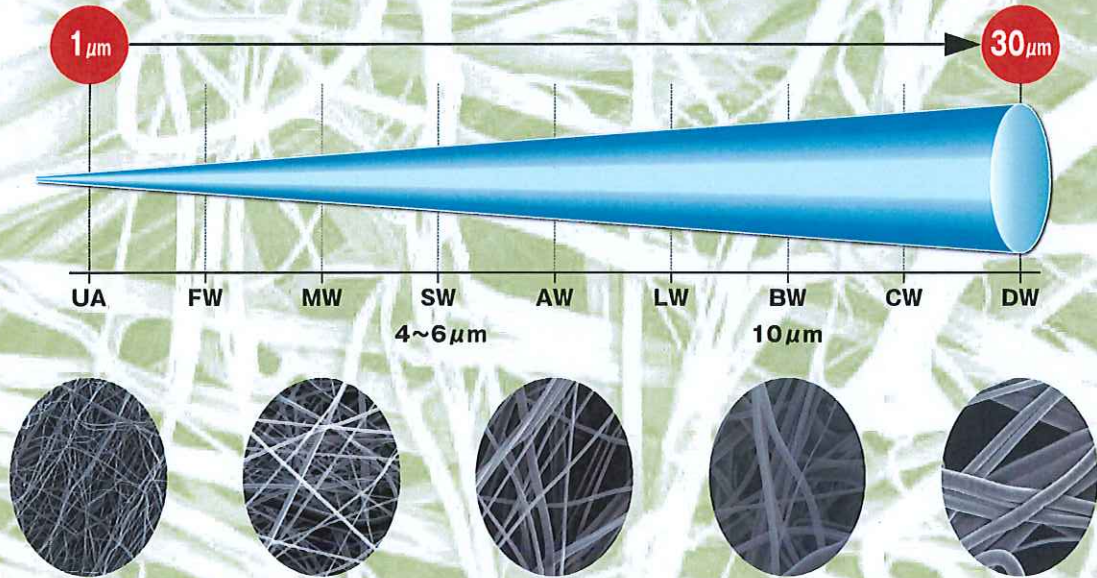
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Fiber diameter of TAPYRUS



Various products to meet any demand

Typical Properties of Web

	Grade Unit	Basis Weight (g/m ²)	Thickness (mm)	Air Permeability (cc/cm ² /sec)	Maximum Pore Diameter (μm)
■ Polypropylene	P010SW-00X	10	0.13	130	70
	P020SW-00X	20	0.20	55	60
	P030LW-00X	30	0.37	141	unmeasurable
	P030AW-00X	30	0.39	77	63
	P030FW-00X	30	0.40	25	33
	P030UA-00X	30	0.40	19	28
	P045CW-00X	45	1.10	645	unmeasurable
	P050SW-00X	50	0.43	36	47
	P100SW-00X	100	1.00	14	40
	P200SW-00X	200	1.34	8	37
■ Calendered (Polypropylene)	P050SW-0CX	50	0.20	14	40
	P050FW-0CX	50	0.18	4	23
	P120UA-0CX	120	0.21	1>	6
	P200SW-0CX	200	0.60	2	23
■ Polybutyleneterephthalate	B040U0-00X	40	0.35	20	26
	B045S0-00X	45	0.35	45	54
■ Polyphenylenesulfide	S045S0-00X	45	0.40	56	58
■ Polyamide	N060SW-00X	50	0.26	14	27