



Air Pollution Control Membranes



The
Proven
Business
Decision



World Class

Experience / Innovative Technology

- ▲ Armed with an entrepreneurial spirit, TTG taps into almost one-half century of combined experience and expertise to redefine filtration laminates.
- ▲ Flexible, redundant processing capabilities afford TTG the speed to develop the next generation of APC laminates to meet the increasing environmental demands.
- ▲ At the center of TTG is a blend of three core sciences; ePTFE membrane production, filtration textile design, and thermal lamination.
- ▲ A world-wide supply base ensures the shortest lead time and availability of raw materials.



Membrane

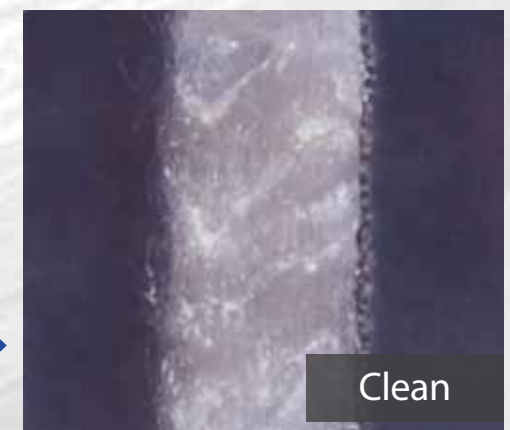
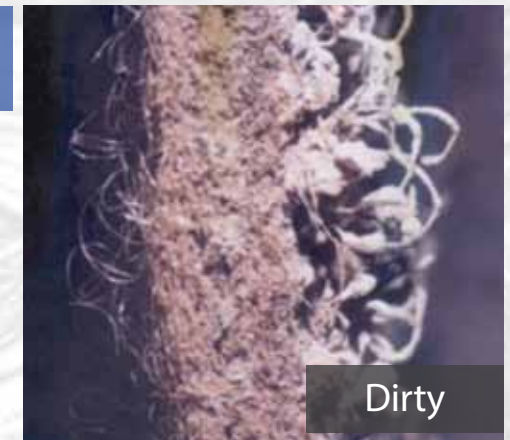
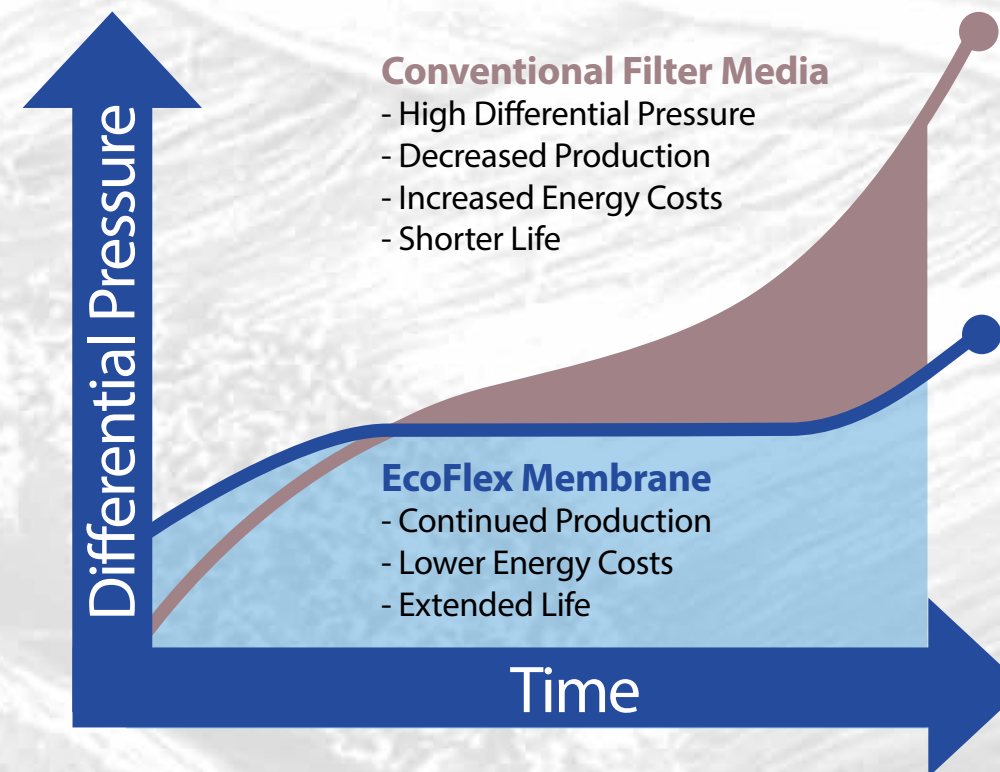
Why Choose ePTFE Membrane?

- ▲ Maximizes cleanability in normal operating conditions
- ▲ Aids in recovery from upset conditions [moisture & ammonia]
- ▲ Provides a thermal and chemical barrier to particulate matter
- ▲ Creates an optimal combination of air flow and filtration efficiency
- ▲ Enables easy dust-shedding resulting in a consistently lower pressure drop
- ▲ Exceeds EPA requirements (PM2.5, MACT, NESHAP)

Applications

- ▲ **Chemical** (Carbon Black, Plastics, Soaps, TiO₂)
- ▲ **Combustion** (Coal Fired Boilers, Incineration)
- ▲ **Food and Pharmaceutical** (Milling, Pill Coating, Refining)
- ▲ **Metals** (Ferro-Alloy, Foundry, Lead Smelting, Steel)
- ▲ **Rock Products** (Cement, Gypsum, Lime)

Bottom Line Performance



Laminate

Proven Performer for Pollution Control

- ▲ Successful, world-wide applications in a variety of industries
- ▲ Independently verified fabric properties and baghouse application performance
- ▲ In-house laboratory for real-time R&D, production and quality control
- ▲ Industry accepted VDI machine for benchmark testing, iterative feedback and design
- ▲ World wide supply partners complement our specialized product development
- ▲ Customer testimonials available upon request
- ▲ TTG is a member of the EPA's ETV verification program for baghouse filter media
www.epa.gov/etv



1 Membrane Manufacturing

- ▲ State-of-the-art equipment produces film with unmatched property parameters
- ▲ Unique process control methods allow for the optimum balance of structural stability and filtration performance
- ▲ Robust and precise control provides consistent adherence to design specifications

3 Laminate Bonding

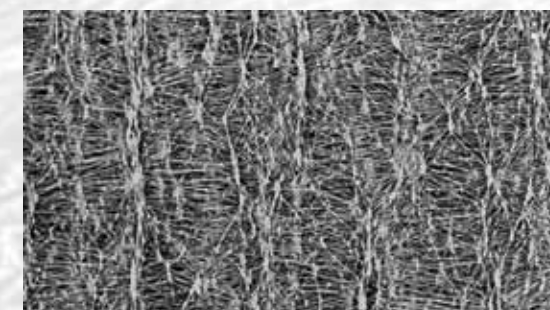
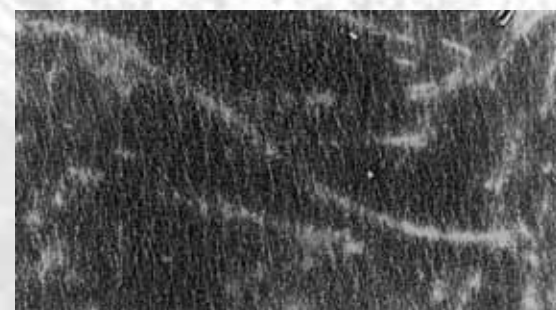
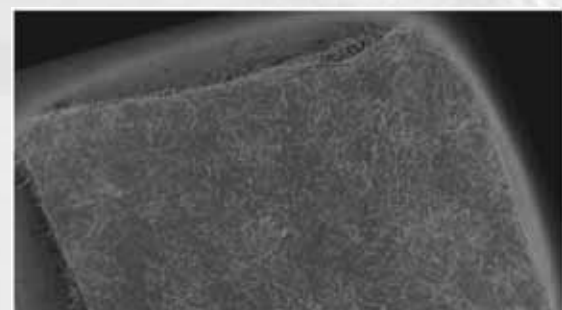
- ▲ Thermal bonding process optimized to minimize flex cracking and fouling
- ▲ Automated process control [speed, temperature and pressure] for consistent quality across multiple laminations
- ▲ Flexible, redundant lamination systems accommodate multiple suppliers to meet various customer demands

2 Textile Design

- ▲ Fabric and fiber optimized for thermal lamination and long-term product stability
- ▲ Unique blends of polymer, fiber size and construction to control bonding locations
- ▲ Substrate suppliers carefully chosen to ensure adherence to TTG specifications



TTG



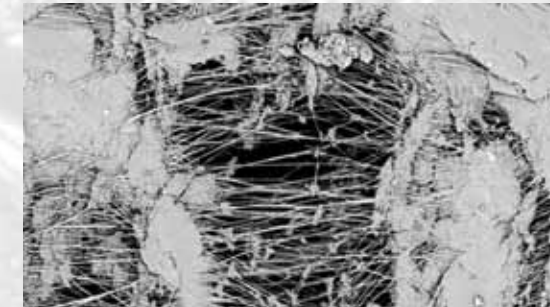
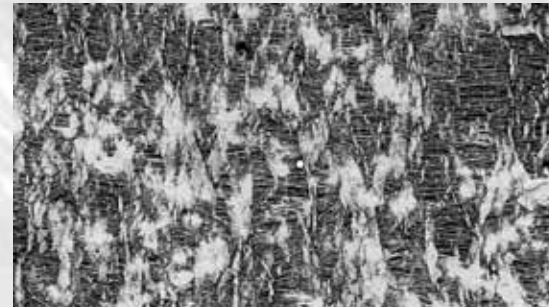
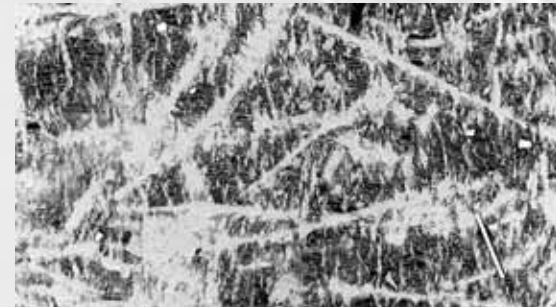
zoom level 20x

250x

500x

2000x

Others



In-House VDI Testing

Air Pollution Control Membranes

Pulse Jet Laminates

Fabric #	Weight (oz)	Fiber	Construction	Max Temp (F)
TG300	14	Polypropylene	Scrim Supported Needlefelt	195
TG500	15	Acrylic	Scrim Supported Needlefelt	265
TG400	16	Polyester	Fiber Supported Needlefelt	275
TG450	16	Polyester	Scrim Supported Needlefelt	275
TG490	14	Polyester	Scrim Supported Needlefelt - Epitropic	275
TG495	16	Polyester	Stainless Steel Scrim Supported Needlefelt	275
TG800	16	PPS	Scrim Supported Needlefelt	375
TG830	16	PPS	Fiber Supported Needlefelt	375
TG900	14	Aramid	Fiber Supported Needlefelt	400
TG950	14	Aramid	Scrim Supported Needlefelt	400
TG910	16	Aramid	Scrim Supported Needlefelt	400
TG850	14	P84	Fiber Supported Needlefelt	500
TG875	14	P84	Scrim Supported Needlefelt	500
TG1300	20	PTFE	Scrim Supported Needlefelt	500
TG130/140	16	Fiberglass	Woven with PTFE Dispersion Finish	500
TG270/280	16	Fiberglass	Woven with Acid Resistant Finish	500
TG100/150/190	22	Fiberglass	Woven with PTFE Dispersion Finish	500
TG250/260	22	Fiberglass	Woven with Acid Resistant Finish	500

Pleated Pulse Jet Laminates

TG1035	10	Polyester	Stiffened Anti-Static Needlefelt	180
TG1000	8	Polyester	Calendered Spunbond	275
TG1125	8	Polyester	Anti-Static Spunbond	275
TG815	10	PPS	Stiffened Needlefelt	375
TG990	12	Aramid	Stiffened Needlefelt	400

Reverse Air and Shaker Laminates

TG525	7	Acrylic	Sateen Weave	265
TG430	6	Polyester	Twill Weave	275
TG410	9	Polyester	Sateen Weave	275
TG825	9	PPS	Twill Weave	375
TG925	9	Aramid	Twill Weave	400
TG1325	9	PTFE	Sateen Weave	500
TG102/104	10	Fiberglass	Woven with PTFE Finish	500
TG200/220	10	Fiberglass	Woven with Acid Resistant Finish	500



TTG Inc.

7561 South Highway 13

Higginsville, MO 64037

Phone: 660-584-2448

Fax: 660-584-3422

E-mail: sales@TTGtech.net

Website: www.TTGtech.net

