



## Composite Process Materials

### UNPARALLELED CUSTOMER SERVICE - HIGH-PERFORMANCE FLUOROPOLYMER PRODUCTS

As the fluoropolymer experts, TCI offers a vast knowledge of diverse fluoropolymer technologies and superior customer service. Our unrivaled expertise and willingness to provide custom solutions has made us a leading supplier of the highest quality fluoropolymer films. TCI manufactures cast PTFE and melt extruded PFA, FEP, and ETFE films for use in industries that include: composite molding, chemical processing, heat sealing, welding, electrical, and medical.

TCI offers a complete range of products for the high end composite molding industry, including MR (mold release) and VB (vacuum bagging) films, PTFE coated fiberglass bleeder cloth, release fabrics, and PSA tapes. Our MR and VB films are suitable for the upper end temperatures required in the fabrication of high performance composites for the aerospace industry.

### HIGH-PERFORMANCE FLUOROPOLYMER FILMS, LAMINATES & COMPOSITES

Cast PTFE Vacuum Bagging Films (VB)

Mold Release Films (MR)

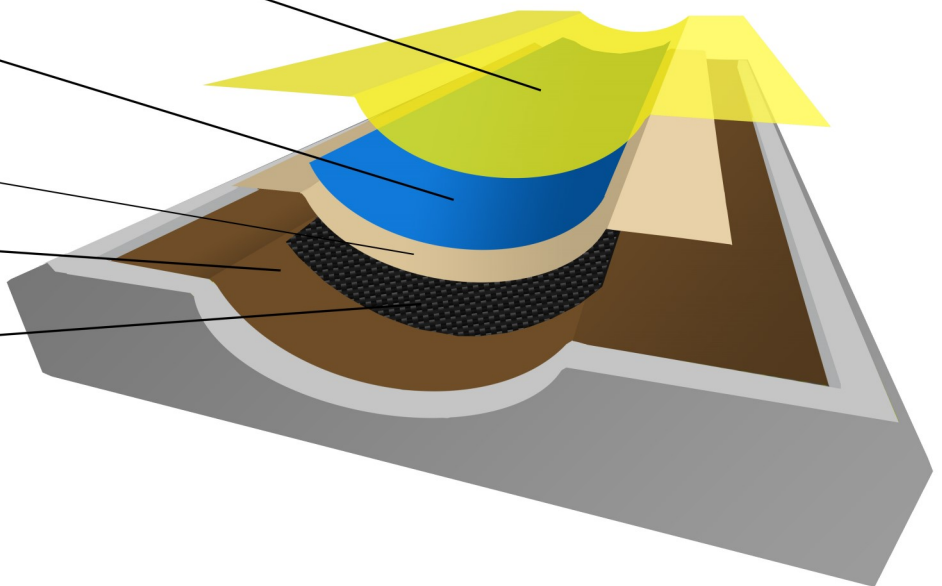
TEXCOAT™

Bleeder Cloth & Release Fabrics

TEXTAPE™

PTFE / Fiberglass PSA Tapes

Laminate / Prepreg



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# Composite Process Materials

## TCI HIGH-PERFORMANCE FLUOROPOLYMER PRODUCTS FOR COMPOSITE MOLDING PROCESS INDUSTRY

VACUUM BAGGING FILM	Maximum Use Temp. °F (°C)***	Elongation at Break, %, min.	Standard Gages inch (µ)	Max. Width inch (mm)	Standard Colors*
PTFE VB (CF 300 LE VB)	500 (260)	400%	0.003" (75)	50" (1270)	Yellow

MOLD RELEASE FILMS	Maximum Use Temp. °F (°C)***	Elongation at Break, %, min.	Standard Gages inch (µ)	Max. Width inch (mm)	Standard Colors*
PTFE MR (CF 100, CF 200)	600 (316)	400%	0.001" (25), 0.002" (50)	60" (1524)	Blue, Red, White, Purple
FEP MR (FEP MR 1 mil, 2 mil)	500 (260)	300%	0.001" (25), 0.002" (50)	60" (1524)	White, Red, Violet
ETFE MR (ETFE MR 1 mil, 2 mil)	450 (232)	300%	0.001" (25), 0.002" (50)**	60" (1524)	Red, Blue

\*Custom colors available upon request. Minimum order quantities apply.

\*\*ETFE MR is also available in 0.0005"-0.001" (12-25 µ) upon request. Minimum order quantities apply.

\*\*\*The maximum use temperature is dependent upon the time of exposure at maximum temperature and is process specific. TCI recommends testing at actual process conditions to determine upper use temperature.

TEXCOAT™ POROUS BLEEDER CLOTH	2	3
Upper Use Temperature:	600°F (316°C)	
Overall Weight oz/yd <sup>2</sup> (g/m <sup>2</sup> ):	1.5 (51)	2.0 (68)
Thickness in (mm):	0.002 (0.050)	0.003 (0.076)
Width in (mm):	38 (1016), 50 (1270)	
Color:	Natural (light brown)	

TEXCOAT™ RELEASE FABRIC	3	5	10
Upper Use Temperature:	600°F (316°C)		
Overall Weight oz/yd <sup>2</sup> (g/m <sup>2</sup> ):	3.5 (120)	7.5 (250)	14.5 (490)
Thickness in (mm):	0.003 (0.076)	0.005 (0.13)	0.0010 (0.25)
Width in (mm):	38 (1016), 50 (1270)		
Color:	Natural (light brown)		

TEXTAPE™ ADHESIVE TAPE	3S	5S
Upper Use Temperature:	500°F (260°C)	
PTFE Coated Base Weight oz/yd <sup>2</sup> (g/m <sup>2</sup> ):	4.5 (150)	7.5 (250)
Width in (mm):	36.0 (914)	
PTFE Coated Base Nominal Thickness in (mm):	0.003 (0.076)	0.005 (0.127)
Adhesive Nominal Thickness in (mm):	0.002 (0.051)	
Overall Product Thickness in (mm):	0.005 (1.127)	0.007 (0.178)
Tensile Strength lbs/in (N/50mm): Warp x Fill	60 (534) x 50 (445)	130 (1157) x 140 (1246)
Adhesive System	Silicone	
Color:	Natural (light brown), Copper, Brown	

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