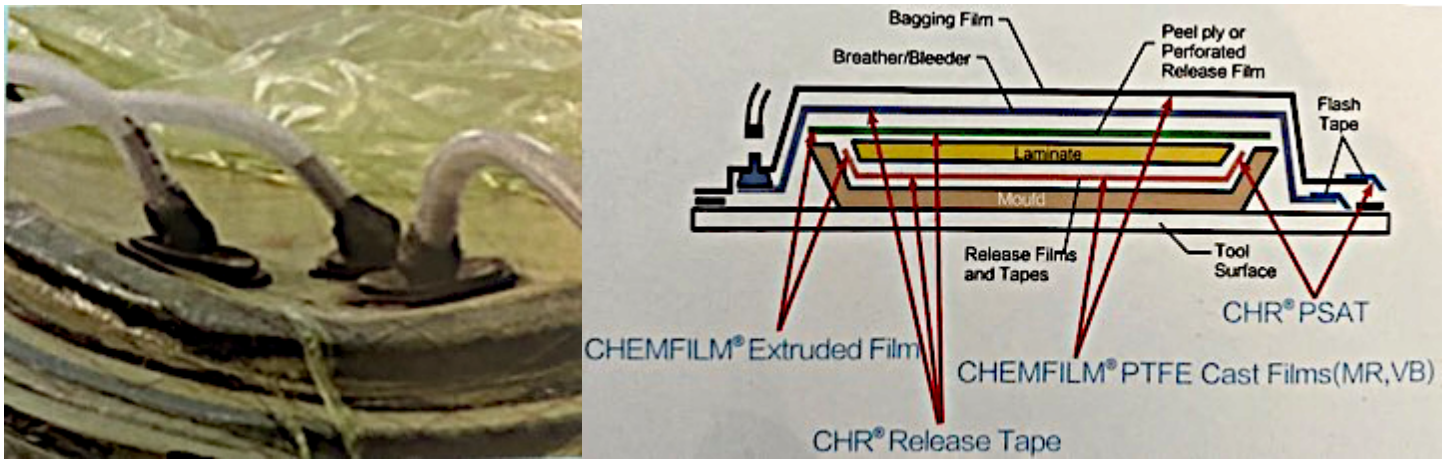
Composite Moulding Of Aviation Parts



Extrusion film (CHEMFILM® ETFE/FEP/PFA) and cast film (CHEMFILM® MR) for composite moulding

- Cover the mould perfectly
- Various surface treatment methods for application
- Various colours for easy identification
- High continuous operating temperature from 165°C to 260°C

High temperature vacuum bagging film (CHEMFILM® VB)

- During processing of composite moulding, pressure would be applied by the vacuum bag. CHEMFILM® VB vacuum bagging film is made of pure PTFE material through casting technology, and can be used in the high temperature environment that nylon vacuum bagging materials could not work. Meanwhile, CHEMFILM® VB can keep excellent surface release performance in full operating temperature range. It has an elongation property of up to 550%, and can cover the mould perfectly under any conditions due to its high flexibility.
- Continuous operating temperature of 260°C

Protective film of mould (CHR release tape or release film)

- Cover the surface of the mould perfectly without the need of any release agent, be reusable and reduce substantial cost of mould process materials
- Be applicable to most mould materials in high temperature environment without leaving any adhesive residue
- Continuous operating temperature of 260°C

Release Film, Release Tape, Vacuum Bag					
Product	**Application**	**Thickness (mm)**	**Width (mm)**	**Continuous Operating Temperature (°C)**	**Maximum Temperature (°C)**
CHEMFILM® VB (Pure PTFE)	Vacuum Bag	0.0762	1270	260	327
CHEMFILM® MR (Cast PTFE)	Release Film	0.0305	1270	260	327
CHEMFILM® (ECTFE)	Release Film	0.0127 to 0.254	1200 (0.254 to 0.762) 1520 (0.013 to 0.254)	170	240
CHEMFILM® (ETFE)	Release Film	0.0127 to 0.508		165	260
CHEMFILM® (FEP)	Release Film	0.0127 to 0.762		205	260
CHEMFILM® (PFA)	Release Film	0.0127 to 0.762		260	305
CHR® 100 series	Release Tape	0.075	1000	-73 to +260	260
CHR® 100 series	Release Tape	0.07 / 0.12	1000	-73 to +260	260