

**CHEMFILM® MR** is a family of films combining the chemical inertness and universal non-stick properties of PTFE polymers with maximum conformability and heat resistance. Compare the data shown for CHEMFILM MR versus other materials typically used in composite fabrication in order to understand its superior performance, particularly for complex shapes and high temperature resins.

Film Product	Elongation (%)	Max Temp. (°F)
CHEMFILM MR	450	600
Teflon® PFA	430	550
Teflon FEP	300	500
Tedlar® PVF	190	350
HALAR® ECTFE	200	350
Kapton® Polyimide	90	750
Tedlar® Polyimide	370	450

#### BENEFITS

- Continuous service temperature range from -200 to +315°C (-328 to 500°F)
- Can be used in intermittent service at temperatures close to or above its melting point
- Exhibits superior release qualities over the entire temperature range
- High elongation and unmatched drapability allows for superior conformability for irregular shapes
- High temperature performance for PMR-15, polyimides, PEEK and other high temperature resin systems

Property	Method	Value
Tensile Strength at Break (psi)	ASTM D-882-83	4,500
Elongation (%)	ASTM D-882-83	400
Elastic Modulus (psi)	ASTM D-882-83	55,000
Yield Stress (psi)	ASTM D-882-83	1,400
Resistance to Tear Initiation (psi)	ASTM D-1004	500
Propagating Tear Strength (lbs.)	ASTM D-1938	0.10
Bursting Strength (psi)	ASTM D-774-67	75
Maximum Continuous Serv. Temp.	ASTM D-150	260°C/500°F
Dimensional Stability	30 Min 500°F	3% Shrinkage Max
Coefficient of Linear Thermal Exp.	ASTM D-696	5.5 x 10 <sup>-5</sup> in./in. °F

Type	Nominal Thickness	Width	Length	Appropriate Square Feet Per Roll
MR1	0.001	48"	500'	2,000
MR2	0.002	48"	250'	1,000

Values shown are typical. Certified test reports for writing specifications are available.

**Standard Colors:** Red, white and natural    **Perforated:** Specify pattern

*The data listed herein fall within the normal range of product properties for the products described, but they should not be used to establish specification limits nor used alone as the basis of design. Saint-Gobain assumes no obligation or liability for any advice furnished by it or for results obtained with respect to these products. All such advice is provided gratis and Buyer assumes sole responsibility for results obtained in reliance thereon. Saint-Gobain warrants that the material itself does not infringe any United States patent, but no license is implied nor is any further warranty made.*

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