

## SHEERGARD® M26

M26 is a SHEERGARD® microwave transmissive composite designed specifically for use in RF applications. The composite is made of fiberglass fibers and a polytetrafluoroethylene (PTFE) matrix.

The "M" group incorporates a flat, plain weave in the structural substrate. M26 is available in widths of 158 inches, making it a popular choice for one-piece planar radomes.

### Typical Properties

Property	Value	Test Method
Coated Fabric Weight (g/m <sup>2</sup> )	762 nominal	ASTM D751
Thickness (mm)	0.457 nominal	ASTM D751
Tensile Strength (N/cm)		
Warp	650 min. avg.	ASTM D4851
Fill	650 min. avg.	
Tensile Strength, Flex-fold (N/cm)		
Warp	610 min. avg.	ASTM D4851
Fill	610 min. avg.	
Trap Tear Strength (N)		
Warp	111 min. avg.	ASTM D4851
Fill	147 min. avg.	
Coating Adhesion (N/cm)	12.2 min. avg.	ASTM D4851
Uniaxial Elongation at 70N/cm (%)		
Warp	2.0 max. avg.	ASTM D4851
Fill	5.0 max. avg.	
Dielectric Constant	2.80 nominal	ASTM D2520
Loss Tangent	0.005 nominal	ASTM D2520
Water Absorption (%)	Less than 0.5	24hr. total immersion
Incombustibility (seconds)	0 to flameout	NFPA 701
Hydrophobic Contact Angle (degrees)	90+ nominal	ASTM C813

Nominal values available upon request. Values listed are for virgin roll goods only. Appropriate industry safety factors need to be used to account for the in-service effects of handling, weathering, etc.

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