

SHEERGARD® M15-OS

M15-OS 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. M15-OS is a one-sided coated product used specifically for pre-tensioned planar radomes and antenna covers, within the temperature range of -100°F to +300°F.

Typical Properties

Property	Value	Test Method
Coated Fabric Weight (g/m ²)	405 nominal	ASTM D751
Thickness (mm)	0.280 nominal	ASTM D751
Tensile Strength (N/cm)		
Warp	500 min. avg.	ASTM D4851
Fill	440 min. avg.	
Trap Tear Strength (N)		
Warp	110 min. avg.	ASTM D4851
Fill	170 min. avg.	
Coating Adhesion (N/cm)	5.25 min. avg.	ASTM D4851
Dielectric Constant	2.80 nominal	ASTM D2520
Loss Tangent	0.005 nominal	ASTM D2520
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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Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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