

RAYDEL[®] M26 SPECIFICATION

MICROWAVE TRANSMISSIVE COMPOSITE

RAYDEL[®] is a microwave transmissive composite designed specifically for use in RF applications. The composite is made of fiberglass and polytetrafluoroethylene (PTFE). The "M" group incorporates a flat, plain weave in the structural substrate. M26 is available in widths up to 158", making it a popular choice for one piece planar radomes.

TYPICAL PROPERTIES	UNITS	VALUE	TEST METHOD
Weight	oz./sq. yd.	22.5 nominal	FTMS 191A-5041
Thickness	inches	0.018 ± 0.002	FTMS 191A-5030 (para 4.1.3)
Strip Tensile Strength Warp (Dry) Fill (Dry)	lbs./in.	375 min average 300 min single 375 min average 300 min single	FTMS 191A-5102 (Strain Rate: 2 ins./minute)
Strip Tensile Strength After Flexfold Warp (Dry) Fill (Dry)	lbs./in.	350 min average 275 min single 350 min average 275 min single	CHEMFAB LP-78
Tear Strength (Trapezoidal) Warp Fill	lbs.	25 min average 22 min single 33 min average 22 min single	FTMS 191A-5136
Coating Adhesion Dry	lbs./in.	7 min average 6 min single	CHEMFAB LP-62
Uniaxial Elongation (at 40 lbs./in.) Warp Fill	%	2.0 max average 5.0 max average	CHEMFAB LP-59
Dielectric Constant		2.8 nominal	Interferometer @ X-band
Loss Tangent		0.005 nominal	Interferometer @ X-band
Water Absorption	%	Less than 0.5	48 hr. total immersion
Hydrophobic Contact Angle	degrees	90 + nominal	Keyeness
Incombustibility	seconds	0 to flameout	NFPA 701

The Company's liability is expressly limited by the Company's conditions of sale shown on seller's price list or buyer's copy of seller's order acknowledgment form (if used) and seller's invoice. All pre-contract technical advice, recommendations and services are rendered by the seller free of charge. While based on data believed to be reliable, they are intended for use by skilled persons at their own risk. Seller assumes no responsibility to buyer for events resulting or damages incurred from their use. They are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

©RAYDEL is a registered trademark of Saint-Gobain
©1992 Saint-Gobain, all rights reserved