

Production Information

HyboFOAM® WA

Introduction

HyboFOAM® WA is a halogen-free, closed-cell rigid foam based on polymethacrylimide (PMI), developed for electromagnetic shielding applications. Wave-absorbing additives are integrated during the foaming process, producing a structurally uniform material with consistent radar-frequency absorption and excellent dielectric performance.

Structural Foam for Electromagnetic Shielding

HyboFOAM® WA offers the same outstanding mechanical properties as other **HyboFOAM® PMI** foam products, making it ideal for composite sandwich structures requiring both radar-absorbing functionality and high mechanical performance.

HyboFOAM® WA is widely used in electromagnetic shielding applications.

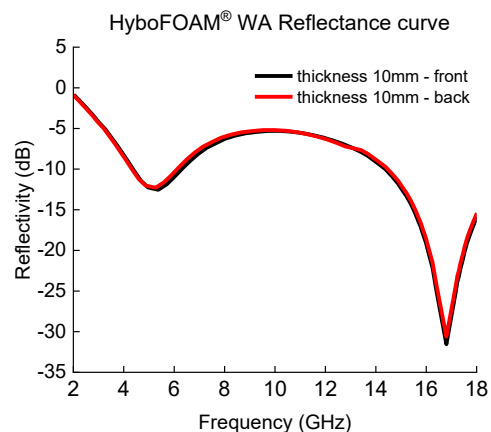
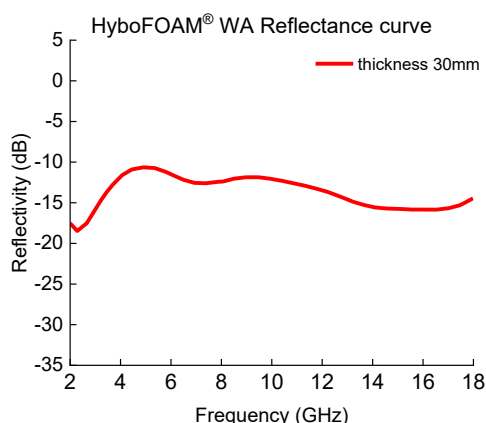
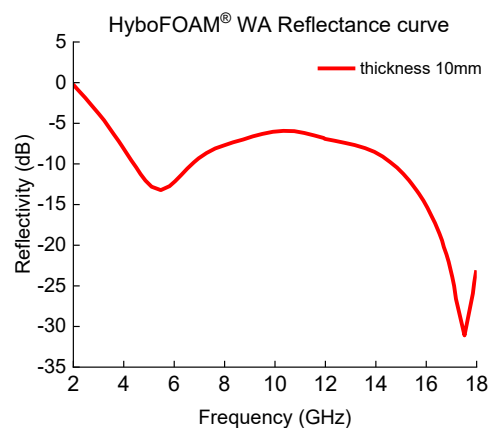
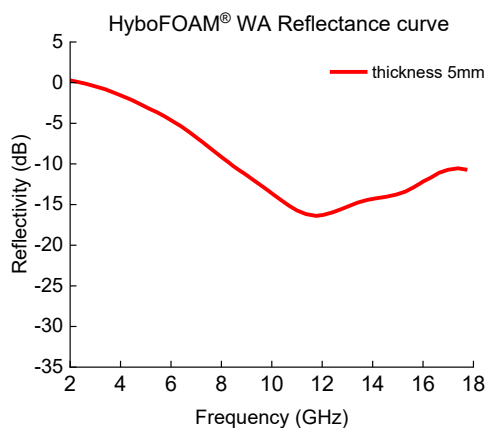
Processing and Production

HyboFOAM® WA can withstand curing processes with temperatures up to 180 ° C and pressures up to 0.7 MPa, depending on its density. It is compatible with a wide range of curing methods, including autoclave, vacuum bag, RTM, VARTM, VARI, and HP-RTM.

Thermoforming and Shaping

HyboFOAM® WA is easy to thermoform, bond with various adhesives, or machine using standard CNC equipment.

Hybo also provides pre-shaped or ready-to-use foam cores with high dimensional accuracy in both simple and complex geometries.



Property	Test Method *	Unit	HyboFOAM® WA 75	HyboFOAM® WA 110	HyboFOAM® WA 150
Density	GB/T 6343	kg/m ³	75	110	150
	ASTM D1622	g/cm ³	0.075	0.11	0.15
	ISO 845	lb/ft ³	4.68	6.86	9.36
Compressive Strength	GB/T 8813 ASTM D1621 ISO 844	MPa	1.6	3.2	5
Compressive Modulus		psi	232	464	725
		MPa	70	100	180
		psi	10150	14500	26100
Tensile Strength	GB/T 1040.2 ASTM D638 ISO 527-2	MPa	2	3.3	4.8
Tensile Modulus		psi	290	479	696
		MPa	105	175	245
		psi	15225	25375	35525
Elongation at Break		%	3.2	2.5	2
Shear Strength	GB/T 1455 ASTM C273 DIN 53294	MPa	1	2.2	3.5
Shear Modulus		psi	145	319	508
		MPa	36	60	90
		psi	5220	8700	13050

The above values are typical values for nominal density, and the measured values will vary due to manufacturing deviations.

* Data is based on ASTM standard test methods, but GB or ISO values can be confirmed upon request.

For More Information

If you have questions or want to discuss the use of **HyboFOAM® W** in your application, we recommend that you communicate with your local contacts.

Please visit www.hybofoam.com, find and contact the local contact person directly by phone or email.

Contact Information

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