



**QUARTZ FIBER HONEYCOMB CORE
UQF-105-1/4-3.0**

Ultracor UQF-105-1/4-3.0 is used in double shell reflectors, radomes and other lightly loaded structures requiring Quartz’s dielectric properties.

The standard sheet size for Ultracor is approximately 36” L (ribbon) x 24” W by specified T. Custom sheet sizes are available. Thickness tolerance is maintained at ± 0.006”. Tighter thickness tolerances are available per customer’s request. Ultracor can splice material into virtually any dimension.

ULTRACOR MECHANICAL PROPERTIES

Ultracor Product Code	Construction Materials	Compressive ASTM C365		Shear ASTM C273			
		Stabilized		L Direction		W Direction	
		Strength (psi)	Modulus (ksi)	Strength (psi)	Modulus (ksi)	Strength (psi)	Modulus (ksi)
UQF-105-1/4-3.0	Astroquartz Fabric/ Cyanate Ester	206	22.9	136	17.6	71	9.6

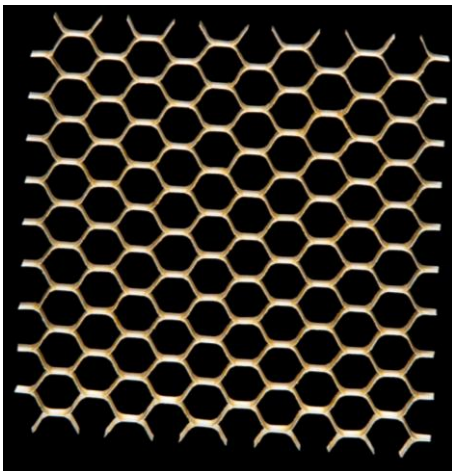
ULTRACOR DIELECTRIC PROPERTIES

The dielectric constant and the loss tangent factor of Quartz are the most distinguished amongst all mineral fibers. Properties of UQF-105-1/4-3.0 honeycomb core test at average frequencies of 1.0 GHz:

Ultracor Product Code	Average Frequency	Dielectric Constant Along Ribbon	Loss Tangent Along Ribbon	Dielectric Constant Across Ribbon	Loss Tangent Across Ribbon
UQF-105-1/4-3.0	9.5 GHz	1.042	0.00083	1.060	0.00036

ULTRACOR PRODUCT DESIGNATIONS

Ultracor products are designated by use of a series of letters and numbers, as follows:



UQF-105-1/4-3.0, in which:

“**U**” represents Ultracor honeycomb core

“**QF**” indicates the material used is Quartz Fiber

“**105**” determines the product code number under which the details of construction are documented

“**1/4**” indicates a 1/4” cell size

“**3.0**” indicates a nominal density in pounds per cubic foot (lbs/ft³)