



**QUARTZ FIBER HONEYCOMB CORE  
UQF-314-3/8-3.0**

Ultracor UQF-314-3/8-3.0 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-314-3/8-3.0	Astroquartz Fabric/ Cyanate Ester	250	26.5	225	18.0	105	10.6

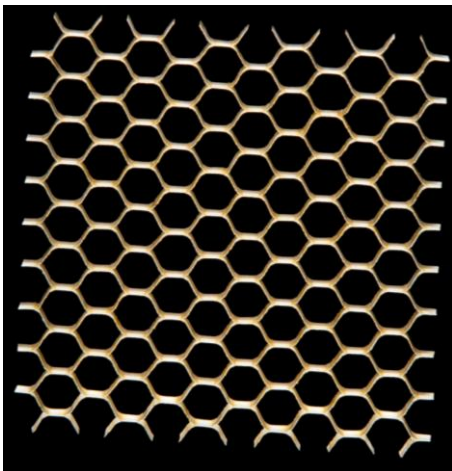
**ULTRACOR DIELECTRIC PROPERTIES**

The dielectric constant and the loss tangent factor of Quartz are the most distinguished amongst all mineral fibers. Properties of UQF-314-3/8-3.0 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-314-3/8-3.0	1 GHz	1.046	0.00025	1.035	0.00018

**ULTRACOR PRODUCT DESIGNATIONS**

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



**UQF-314-3/8-3.0**, in which:

“**U**” represents Ultracor honeycomb core

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

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

“**3/8**” indicates a 3/8” cell size

“**3.0**” indicates a nominal density in pounds per cubic foot (lbs/ft<sup>3</sup>)