

Ultracor® UQF-95-1/4-3.0 Honeycomb Core Material

Category : Other Engineering Material , Composite Core Material

Material Notes:

Construction: $\pm 45^\circ$ Quartz. Fiber: Astroquartz II. Ultracor® is a very low density honeycomb core material designed for use in highly weight-sensitive structures. It is expected that it will be used in spacecraft Antenna Reflectors, Optical Benches, Solar Arrays, and other lightly loaded structures which must be positioned with accuracy and stability in order to properly perform their intended purpose. It was developed using a space qualified, toughened, polycyanate matrix resin. General Ultracor® features include low density, design flexibility, low CTE, low CME, and high thermal conductivity. Data provided by Ultracor Inc., formerly YLA Cellular Products Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ultracor-UQF-95-14-30-Honeycomb-Core-Material.php

Physical Properties	Metric	English	Comments
Density	0.0480 g/cc	0.00173 lb/in ³	core density

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	1.55 MPa	225 psi	
Compressive Modulus	0.172 GPa	24.9 ksi	
Shear Modulus	0.117 GPa	17.0 ksi	ribbon direction
Shear Strength	1.28 MPa	186 psi	ribbon direction

Electrical Properties	Metric	English	Comments
Dielectric Constant	1.042	1.042	Along ribbon
	@Frequency 9.50e+9 Hz	@Frequency 9.50e+9 Hz	
	1.06	1.06	Across ribbon
	@Frequency 9.50e+9 Hz	@Frequency 9.50e+9 Hz	
Dissipation Factor	0.00036	0.00036	Across ribbon
	@Frequency 9.50e+9 Hz	@Frequency 9.50e+9 Hz	
	0.00083	0.00083	Along ribbon
	@Frequency 9.50e+9 Hz	@Frequency 9.50e+9 Hz	

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