

TriStar



Engineered Plastic Solutions™

Engineering | Custom Fabrication | Manufacturing

Ultracomp® UC500

Technical Specs

Property	ASTM Method	Unit	Value
Specific Gravity	D792	g/cc	1.32
Tensile Strength	D4894	psi	9,500
Hardness	D2240	Rockwell	R103
Compressive Strength - Perpendicular Parallel	D695	psi psi	50,000 18,500
Shear Strength	D732	psi	23,000
Notched Impact Strength	D256 A	ft.lb/in of notch	>20
Co. of Thermal Exp. (x 10-5) (MD/CD)	D696 -40 to +450F	in/in/°F	4-6
Limiting PV		psi/fpm	25,000
Coefficient of Friction	Dynamic	(Dry)	0.15
Water Absorption 24 hrs Immersion Saturation	D570	%	0.01 0.01
Operating Temperatures		°F	Cryogenic to +335

Product Description

Ultracomp UC500 is a laminate product consisting of vinyl ester resin with PTFE solid lubricant and special para-aramid fiber to handle higher temps used in high load environments, high impact oscillating and slow rotary applications. With the addition of graphite to the resin binder, **Ultracomp UC500** is a maintenance free, self-lubricating material with exceptional impact strength and vibration resistance.

For more information on application contact TriStar Plastics Corp. at 1-800-TRISTAR or via our website at www.tstar.com.

We're ready to put our engineering expertise to work for you from prototype to production.

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CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



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