

TriStar



Engineered Plastic Solutions™

Engineering | Custom Fabrication | Manufacturing

Ultracomp® UC400

Technical Specs

Property	ASTM Method	Unit	Value
Color			Gray
Specific Gravity	D792	g/cc	1.32
Tensile Strength	D4894	psi	9,500
Tensile Modulus of Elasticity	D638	psi	569,000
Hardness	D2240	Rockwell	R100
Compressive Strength - Perpendicular Parallel	D695 Ultimate Yield	psi	52,000
		psi	25,800
	Ultimate Yield	psi	18,000
		psi	14,000
Flex Modulus of Elasticity	D790	psi	534,000
Shear Strength	D732	psi	21,000
Notched Impact Strength	D256 A	ft.lb/in of notch	>20
Co. of Thermal Exp. (x 10 ⁻⁵)	D696 -40 to +300F (Perp) (Parr)	in/in/°F	5.8-7.0
			3.1-4.0
Limiting PV		psi/fpm	25,000
Coefficient of Friction	Dynamic	(Dry)	0.08-0.15
Water Absorption 24 hrs Immersion Saturation	D570	%	0.01
			0.01
Operating Temperatures		°F	Cryo to +335

Product Description

Ultracomp UC400 is made from a woven polyester fiber reinforcement and thermoset synthetic binders formed into sheets and tubes. The added lubricant is molybdenum disulfide which is compatible with salt and fresh water environments with no galvanic reactions. **UC400** is available in 24 x 48 sheets up to 4" thick and tube sizes up to 40" OD.

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



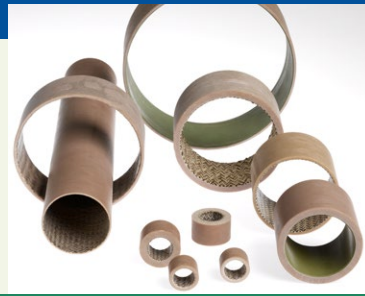
We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



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



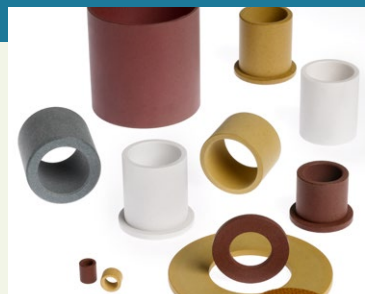
TriSteel[™]

- 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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