



Engineered Plastic Solutions™

Engineering | Custom Fabrication | Manufacturing

Ultraflon P403

Technical Specs

Property	ASTM Method	Unit	Value
Specific Gravity	D792	g/cc	1.41
Tensile Strength	D638	psi	20,000
Elongation @ Break	D638	%	10
Hardness	D785	Rockwell	E80
Tensile Modulus	D638	psi	600,000
Flexural Modulus	D790	psi	600,000
Flexural Strength	D790	psi	24,000
Shear Strength	D732	psi	24,000
Compressive Modulus	D695	psi	478,000
Compressive Strength	D695	psi	24,000
IZOD Impact Strength (Notched)	D256	ft.lbs/in.	2.0
Co. of Linear Thermal Exp. (x 10 ⁻⁵)	D696	in/in/°F	1.7
Coefficient of Friction (Dry vs. Steel)	Dynamic	(Dry)	0.35
Limiting PV (4:1 Safety Factor)	PTM 55007	ft.-lb.-in ² -min	12,500
Wear Factor	(K) x 10 ⁻¹⁰	in ³ -min/lb-ft-hr	50
Heat Deflection Temp	D648	°F@ 264 psi	532
Glass Transition Temp	D3418	°F	527
Thermal Conductivity	C177	BTU/hr/ft ² /F/in	1.80
Max. Continuous Op. Temp.	UL	°F	500
Dielectric Strength	D149	Volts/mil	580
Surface Resistivity	ESD S11.11	ohms/square	>10 ¹⁶
Dielectric Constant	D150	@ 1 MHz	4.2
Dissipation Factor	D150	@ 1 MHz	0.026
Flammability	UL94		V-O
Water Absorption 24 hrs Immersion 0.4 Saturation	D570	%	0.4 Saturation 1.7

Product Description

Ultraflon P403 offers excellent compressive strength and high elongation properties. It also provides electrical insulation and exceptional impact strength. **Ultraflon P403** is commonly used for electrical connectors and insulators due to its high dielectric strength. **Ultraflon P403** is usually available in small diameter rod and thin sheets. For more information on other high performance polymers from TriStar Plastics, contact our engineering department at 1-800-TRISTAR or visit 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



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1.800.874.7827