

**EPP FLUOROSINTA<sup>®</sup> 50 (CM)**

PTFE, Synthetic Mica Filled, Compression Molded

**plastruct polyzone***The world of plastics at your door.*Phone 905-563-0226 • Toll Free 1-800-642-7797 • Fax 905-563-0228  
www.polyzone.com**PHYSICAL PROPERTIES**

Fluorosint 500 has nine times greater resistance to deformation under load than unfilled PTFE. Its coefficient of linear thermal expansion approaches the expansion rate of aluminum, and is 1/5 that of PTFE--often eliminating fit and clearance problems. It is 1/3 harder than PTFE, has better wear characteristics and maintains low frictional properties. Fluorosint 500 is also non-abrasive to most mating materials. Available in Rod or Plate.

Property	Method	Unit	Nominal Value*
Specific Gravity	ASTM D792	2.32g/cc	2.32g/cc
Water Absorption	Immersion , 24 hr; ASTM D570(2)	0.100%	0.100%
Water Absorption in Saturation	Immersion , 24 hr; ASTM D570(2)	0.30%	0
Deformation	2000 psi; 122AF (50A C)	5.00%	5.00%
Hardness, Rockwell R	ASTM D785	55	55
Hardness, Shore D	ASTM D2240	70	70
Tensile Strength	ASTM D638	7.58MPa	1100 psi
Tensile strength at 150AC (300AF)	ASTM D638	3.45 Mpa	500 psi
Tensile Strength at 65AC (150 AF)	ASTM D638	6.89MPa	1000 psi
Elongation at Break	ASTM D638	30%	30%
Tensile Modulus	ASTM D638	2.07GPa	300ksi
Flexural Modulus	ASTM D790	3.45GPa	500 ksi
Flexural Yield Strength	ASTM D790	15.2 Mpa	2200 psi
Compressive Strength	10% DEF; ASTM D695	27.6 Mpa	4000 psi
Compressive Modulus	ASTM D 695	1.72 Gpa	250 kis
Shear Strength	ADSTM D732	14.5 Mpa	2100 pis
Coefficient of Friction	Dry vs Steel; QTM55007	0.15	0.15
K (wear) Factor	QTM 55010	1210 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	600 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr
Limiting Pressure Velocity	4:1 safety factor; QTM 55007	0.280 MPa-m/sec	8000 psi-ft/min
Izod Impact, Notched	Type A	0.481 J/cm	0.900 ft-lb/in

\*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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