

## DELTRIN® 500AF natural blend - Stock Shapes (rods, plates, tubes)

### Chemical Designation

POM-H (Polyacetal (Homopolymer))

### Colour

brown

### Density

1.5 g/cm<sup>3</sup>

### Fillers

PTFE fibres

### Main features

- excellent wear properties
- low static friction
- high mechanical load capacity
- good machinability

### Target Industries

- conveyor technology
- automotive industry
- business machines
- heavy duty industry
- printing machines
- packaging and paper machinery

Mechanical properties	condition	value		test method	comment
Modulus of elasticity (tensile test)		475,000	psi	ASTM D 638	
Tensile strength at yield		7200	psi	ASTM D 638	
Elongation at yield (tensile test)		4	%	ASTM D 638	
Flexural strength		13,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		495,000	psi	ASTM D 790	
Compression strength	1% strain	1500	psi	ASTM D 695	
Compression strength	10% strain	14,000	psi	ASTM D 695	
Compression modulus		200,000	psi	ASTM D 695	
Impact strength (Izod)		0.8	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	87		ASTM D 785	
Thermal properties	condition	value		test method	comment
Melting temperature		347	°F	-	1) (1) publicly sourced data
Service temperature	Long Term	185	°F	-	2) (2) publicly sourced data
Service temperature	Intermittent	300	°F	-	3) (3) publicly sourced data
Other properties	condition	value		test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.18	%	ASTM D 570	

→ Resin specification:  
ASTM D6778-14 POM0100L13A00000  
Shapes specification:  
ASTM D6100-14 S-POM 01301939400 6,800 psi, 340,000 psi

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at [www.ensingerplastics.com](http://www.ensingerplastics.com).

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