

# ADVANCED INDUSTRIAL

HIGH PERFORMANCE PLASTIC SHAPES // PRECISION CNC MACHINED COMPONENTS



## Technical Data Sheet

### *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
- not hot water resistant over 60°C

**Target Industries**

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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>	
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		
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>	
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
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>	
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

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