

## DELTRIN® AF Blend - Stock Shapes

### 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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>
Modulus of elasticity (tensile test)	@ 73 °F	310,000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	8000	psi	ASTM D 638	
Elongation at yield	@ 73 °F	10.3	%	-	
Flexural strength	@ 73 °F	14,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		485,000	psi	ASTM D 790	
Compression strength	@ 73° F, 10% strain	14,000	psi	ASTM D 695	
Compression strength	@ 73° F, 1% Strain	2,200	psi	ASTM D 695	
Compression modulus		250000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	1.0	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	77		ASTM D 785	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>
Melting temperature		347	°F	-	
Deflection temperature	@ 66 psi	334	°F	ASTM D 648	
Deflection temperature	@264 psi	244	°F	ASTM D 648	
Service temperature	Intermittent	300	°F	-	
Service temperature	Long Term	185	°F	-	
<i>Other properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>
Moisture absorption	@ 24 hrs, 73 °F	0.12	%	ASTM D 570	(1) estimated
Flammability (UL94)		HB		-	1)

→ resin specification:  
ASTM D6778-14 POM0110L13B45340 superseding ASTM D4181-00 POM110L13A21220 or ASTM D4181-00 POM110L13A00000  
shapes specification:  
ASTM D6100-11 S-POM0132

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.ensinger-inc.com](http://www.ensinger-inc.com).