

DELTRIN® 500AF Blend - Stock Shapes (rods, plates, tubes)

Chemical Designation

POM-H (Polyacetal (Homopolymer))

Colour

brown

Density

1.5 g/cm³

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		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	Intermittent	300	°F	-	2) (2) publicly sourced data
Service temperature	Long Term	185	°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

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