

DELIN® 100AF natural blend (TECAFORM AD AF) - 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	unit	test method	comment
Modulus of elasticity (tensile test)	@ 73 °F	350,000	psi	ASTM D 638	(1) ASTM D732
Tensile strength at yield	@ 73 °F	7100	psi	ASTM D 638	
Elongation at yield (tensile test)	@ 73 °F	10.3	%	-	
Flexural strength	@ 73 °F	11,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		485,000	psi	ASTM D 790	
Compression strength	@ 73° F, 1% Strain	2,600	psi	ASTM D 695	
Compression strength	@ 73° F, 10% strain	12,500	psi	ASTM D 695	
Compression modulus	@ 73 °F	260,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	0.82	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	79		ASTM D 785	
Shore hardness	D scale	80.4		ASTM D 2240	
Shear strength	72 F	7262	psi	-	1)
Thermal properties	condition	value	unit	test method	comment
Melting temperature		347	°F	-	1) (1) injection molded data
Deflection temperature	@264 psi	244	°F	ASTM D 648	2) (2) injection molded data
Deflection temperature	@ 66 psi	334	°F	ASTM D 648	3) (3) injection molded data
Service temperature	Long Term	185	°F	-	4) (4) i
Service temperature	Intermittent	300	°F	-	4)
Other properties	condition	value	unit	test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.12	%	ASTM D 570	

→ 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.ensingerplastics.com.

Ensinger Inc. Headquarters
365 Meadowlands Boulevard
Washington, PA 15301, USA

Phone 800-243-3221 Sales
Phone 800-869-4029 Technical
Fax 724-746-9209
sales@ensingerusa.com

Date: 2023/10/17

Version: A1