

DELRIN® 500AF natural 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 (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.

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: 2016/06/21

Version: A0