

TECAFORM AD AF natural (DELTRIN® 100AF 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 | 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 | - | |
| 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

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Date: 2024/12/09

Version: A1

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Contact Us for More Information:

P: 866-437-7427 | E: info@polymershapes.com
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