

TECAFINE® PP natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PP (Polypropylene)

Colour

white

Density

0.9 g/cm³

Main features

- excellent chemical resistance
- high purity
- good mechanical properties
- very low water absorption

Target Industries

- chemical plant engineering
- cleanroom technology
- food processing
- food engineering
- pharmaceutical industry
- filter technology
- nuclear and vacuum technology

| <i>Mechanical properties</i> | <i>condition</i> | <i>value</i> | <i>unit</i> | <i>test method</i> | <i>comment</i> |
|---------------------------------------|------------------|--------------|-------------|--------------------|-----------------------|
| Modulus of elasticity (tensile test) | @ 73 °F | 105,000 | psi | ASTM D 638 | |
| Tensile strength at break | @ 73 °F | 3,900 | psi | ASTM D 638 | |
| Elongation at break (tensile test) | @ 73 °F | 500 | % | ASTM D 638 | |
| Flexural strength | @ 73 °F | 4,500 | psi | ASTM D 790 | |
| Modulus of elasticity (flexural test) | @ 73 °F | 165,000 | psi | ASTM D 790 | |
| Notched impact strength (Izod) | @ 73 °F | 2.1 | ft-lbs/in | ASTM D 256 | |
| Rockwell hardness | R Scale | 102 | | ASTM D 785 | |
| Rockwell hardness | M Scale, @ 73 °F | 95 | | - | |
| <i>Thermal properties</i> | <i>condition</i> | <i>value</i> | <i>unit</i> | <i>test method</i> | <i>comment</i> |
| Melting temperature | | 297 | °F | - | 1) (1) per ASTM D3418 |
| Deflection temperature | @66 psi | 165 | °F | ASTM D 648 | 2) (2) Resin data |
| <i>Other properties</i> | <i>condition</i> | <i>value</i> | <i>unit</i> | <i>test method</i> | <i>comment</i> |
| Moisture absorption | @ 24 hrs, 73 °F | 0.06 | % | ASTM D 570 | |

→ Resin specification:
ASTM D4101-10a PP0210
Shapes specification:
NONE

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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

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