# TECAFORM® AH UD blue - Stock Shapes (rods, plates, tubes)

**Chemical Designation**
POM-C (Polyacetal (Copolymer))

**Colour**
dark blue

**Density**
1.71 g/cm$^3$

**Fillers**
detectable filler

**Main features**
- metal detectable
- x-ray opaque
- food grade blue
- good mechanical properties
- good machinability

**Target Industries**
- food processing
- food technology
- food engineering
- engineering for beverage filling systems
- conveyor technology
- packaging and paper machinery
- pharmaceutical industry
- others

| Mechanical properties | condition | value | unit | test method | comment |
|---|---|---|---|---|---|
| Modulus of elasticity (tensile test) | | 300,000 | psi | ASTM D 638 | |
| Tensile strength at yield | | 7,500 | psi | ASTM D 638 | |
| Elongation at break (tensile test) | | 12 | % | ASTM D 638 | |
| Flexural strength | | 12,500 | psi | ASTM D 790 | |
| Modulus of elasticity (flexural test) | | 460,000 | psi | ASTM D 790 | |
| Compression strength | @ 10% deformation | 12,650 | psi | ASTM D 695 | |
| Compression strength | @ 1% deformation | 1,600 | psi | ASTM D 695 | |
| Compression modulus | | 240,000 | psi | ASTM D 695 | |
| Impact strength (Izod) | | 0.68 | ft-lbs/in | ASTM D 256 | |
| Rockwell hardness | M Scale | 89 | | ASTM D 785 | |

| Thermal properties | condition | value | unit | test method | | comment |
|---|---|---|---|---|---|---|
| Melting temperature | | 329 | °F | - | | (1) Data obtained from public source<br>(2) Data obtained from public source<br>(3) Data obtained from public source<br>(4) Data obtained from public source<br>(5) Data obtained from public source |
| Deflection temperature | @ 66 psi | 320 | °F | ASTM D 648 | 1) | |
| Deflection temperature | @ 264 psi | 230 | °F | ASTM D 648 | 2) | |
| Service temperature | Long Term | 212 | °F | - | 3) | |
| Service temperature | short term | 285 | °F | - | 4) | |
| Thermal expansion (CLTE) | | $1.2*10^{-5}$ | in/in/°F | - | 5) | |

| Electrical properties | condition | value | unit | test method | | comment |
|---|---|---|---|---|---|---|
| volume resistance | | $1.0*10^{14}$ | Ω*cm | ASTM D 696 | 1) | (1) Data obtained from public source |

| Other properties | condition | value | unit | test method | | comment |
|---|---|---|---|---|---|---|
| Moisture absorption | @ 24 hrs. | 0.13 | % | ASTM D 570 | 1) | (1) Data obtained from public source |

- Resin specification:
  ASTM D6778-06 POM0200
  Shapes specification:
  ASTM D6100-11 S-POM0200

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Date: 2016/08/04

**Version: A0**