

TECAMID® 66 HI natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PA 66 (Polyamide 66)

Colour

natural opaque

Density

1.15 g/cm³

Main features

- heat stabilized
- low thermal expansion
- good mechanical properties
- good dimensional stability

Target Industries

- conveyor technology
- heavy duty industry
- mechanical engineering
- power engineering

| <i>Mechanical properties</i> | <i>condition</i> | <i>value</i> | <i>test method</i> | <i>comment</i> |
|---------------------------------------|------------------|---------------|--------------------|--------------------------------------|
| Modulus of elasticity (tensile test) | @ 73 °F | 350,000 psi | ASTM D 638 | |
| Tensile strength at yield | @ 73 °F | 10,000 psi | ASTM D 638 | |
| Elongation at break | @ 73 °F | 25 % | ASTM D 638 | |
| Modulus of elasticity (flexural test) | @ 73 °F | 440,000 psi | ASTM D 790 | |
| Impact strength (Izod) | @ 73 °F | 1.2 ft-lbs/in | ASTM D 256 | |
| <i>Thermal properties</i> | <i>condition</i> | <i>value</i> | <i>test method</i> | <i>comment</i> |
| Melting temperature | | 504 °F | ASTM D 2133 | (1) Data obtained from public source |
| Deflection temperature | @264 psi | 194 °F | ASTM D 648 | (2) Data obtained from public source |
| Deflection temperature | @ 66 psi | 392 °F | ASTM D 648 | (3) Data obtained from public source |
| Service temperature | Long Term | 185 °F | - | |
| <i>Other properties</i> | <i>condition</i> | <i>value</i> | <i>test method</i> | <i>comment</i> |
| Moisture absorption | @24 hr, 73 °F | 0.275 % | ASTM D 570 | (1) 0.75 mm |
| Flammability (UL94) | | HB | - | 1) |

→ Resin specification:
ASTM D6779-11 PA0124
Shapes specification:
ASTM D5989-11 S-PA0131

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