

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>unit</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 (tensile test)	@ 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>unit</i>	<i>test method</i>	<i>comment</i>
Melting temperature		504	°F	ASTM D 2133	(1) Data obtained from public source
Deflection temperature	@ 66 psi	392	°F	ASTM D 648	(2) Data obtained from public source
Deflection temperature	@264 psi	194	°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>unit</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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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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