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

Chemical Designation
PA 66 (Polyamide 66)

Colour
natural opaque

Density
1.15 g/cm^3

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

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

Mechanical properties	condition	value	unit	test method		comment
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		
Thermal properties	**condition**	**value**	**unit**	**test method**		**comment**
Melting temperature		504	°F	ASTM D 2133		(1) Data obtained from public source (2) Data obtained from public source (3) Data obtained from public source
Deflection temperature	@ 66 psi	392	°F	ASTM D 648	1)	
Deflection temperature	@264 psi	194	°F	ASTM D 648	2)	
Service temperature	Long Term	185	°F	-	3)	
Other properties	**condition**	**value**	**unit**	**test method**		**comment**
Moisture absorption	@24 hr, 73 °F	0.275	%	ASTM D 570		(1) 0.75 mm
Flammability (UL94)		HB		-	1)	

- Resin specification:
  ASTM D6779-23 PA0124
  Shapes specification:
  ASTM D5989-18 S-PA0130 (only for Nylon shapes >0.062" thick)

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Date: 2019/01/14

Version: A0