

## TECAMID® 66 MO grey - Stock Shapes (rods, plates, tubes)

## Chemical Designation

PA 66 (Polyamide 66)

Colour

grey

Density

1.14 g/cm<sup>3</sup>

**Fillers** 

molybdenum disulfide

## Main features

- → improved surface hardness
- → easy to machine
- → good mechanical properties
- → good tensile strength

## Target Industries

- → conveyor technology
- → heavy duty industry
- → power engineering
- → mining industry

Mechanical properties	condition	value		test method		comment	
Modulus of elasticity (tensile test)	@ 73 °F	500,000	psi	ASTM D 638		(1) Data obtained from public source (2) Data obtained from	
Tensile strength at yield	@ 73 °F	12,000	psi	ASTM D 638	_	call plata obtained from public source (3) Data from public source (3) Data from public source	
Tensile strength at break	@ 73 °F	12,200	psi	ASTM D 638	1)		
Elongation at yield	@ 73 °F	5	%	ASTM D 638	2)		
Elongation at break	@ 73 °F	20	%	ASTM D 638			
Flexural strength	@ 73 °F	19,000	psi	ASTM D 790			
Modulus of elasticity (flexural test)	@ 73 °F	550,000	psi	ASTM D 790			
Compression strength	@ 10% strain	14000	psi	ASTM D 695			
Compression strength	@1 % strain	1200	psi	ASTM D 695			
Compression modulus		292000	psi	ASTM D 695			
Impact strength (Izod)	@ 73 °F	1.1	ft-lbs/in	ASTM D 256			
Rockwell hardness	M Scale (R Scale)	84 (119)		ASTM D 785			
Wear rate	Against Steel, 40 psi, 50 fpm	1.9*10 <sup>-8</sup>	in³-min/ft-lbs-h	r ASTM D 3702	3)		
Thermal properties	condition	value		test method		comment	
Melting temperature	re 491 °F -					(1) Data from public source	
Deflection temperature	@264 psi	194	°F	ASTM D 648	1)	(2) Data from public source (3) injection molded samples (4) Data from public source	
Deflection temperature	@ 66 psi	470	°F	ASTM D 648	2)		
Service temperature	Long Term	230	°F	_	_		
Service temperature	Intermittent	355	°F	_	_		
Thermal expansion (CLTE)		4.0*10 <sup>-5</sup>	in/in/°F	ASTM D 696	3)		
Specific heat		0.4	BTU/lb-F°	_	4)		
Electrical properties	condition	value		test method		comment	
surface resistivity		1.0*10 <sup>14</sup>	Ω/square	ASTM D 257	1)	(1) Data obtained from public source (2) Data from public source (3) Data from public source (4) Data from public source	
Volume resistivity		10 <sup>15</sup>		ASTM D 257	2)		
Dielectric strength		300	V/mil	ASTM D 149	3)		
Dielectric constant	@ 60 Hz, 73 °F, 50% RH	2.5		ASTM D 150	4)		
Other properties	condition	value		test method		comment	
Moisture absorption	@ saturation, 73 °F	7.5 - 8.5	%	ASTM D 570			
Moisture absorption	@ 24 hrs, 73 °F	0.40	%	ASTM D 570			
Flammability (UL94)		HB		<u>-</u>			

Resin specification:
ASTM D6779-11 PA0110L01A00000 and ASTM D4066-01a (Reapproved 2008) PA0110L01A00000 Shapes specification:
ASTM D5989-11 S-PA0121

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More info about PROP 65



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