

## TECAMID 66 LA natural - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PA 66 (Polyamide 66)

### Colour

ivory opaque

### Density

1.11 g/cm<sup>3</sup>

### Fillers

lubricant

Data generated directly after machining  
(standard climate Germany).

### Main features

- good slide and wear properties
- good chemical resistance
- good wear properties
- resistant to many oils, greases and fuels
- high toughness
- good weldable and bondable

### Target Industries

- mechanical engineering
- automotive industry

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	50mm/min	76	MPa	DIN EN ISO 527-2	
Modulus of elasticity (tensile test)	1mm/min	3100	MPa	DIN EN ISO 527-2	1)
Tensile strength at yield	50mm/min	76	MPa	DIN EN ISO 527-2	
Elongation at yield (tensile test)	50mm/min	11	%	DIN EN ISO 527-2	
Elongation at break (tensile test)	50mm/min	14	%	DIN EN ISO 527-2	
Flexural strength	2mm/min, 10 N	102	MPa	DIN EN ISO 178	2)
Modulus of elasticity (flexural test)	2mm/min, 10 N	2800	MPa	DIN EN ISO 178	
Compression strength	1% / 2% / 5% 5mm/min, 10 N	20/35/75	MPa	EN ISO 604	3)
Compression modulus	5mm/min, 10 N	2400	MPa	EN ISO 604	4)
Impact strength (Charpy)	max. 7,5J	37	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	5)
Ball indentation hardness		145	MPa	ISO 2039-1	6)
Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		54	°C	DIN EN ISO 11357	1)
Melting temperature		261	°C	DIN EN ISO 11357	
Service temperature	short term	120	°C		2)
Service temperature	long term	90	°C		
Thermal expansion (CLTE)	23-60°C, long.	11	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
Thermal expansion (CLTE)	23-100°C, long.	12	10 <sup>-5</sup> K <sup>-1</sup>	DIN EN ISO 11359-1;2	
Specific heat		1.6	J/(g*K)	ISO 22007-4:2008	
Thermal conductivity		0.36	W/(K*m)	ISO 22007-4:2008	
Electrical properties	parameter	value	unit	norm	comment
surface resistivity		10 <sup>14</sup>	Ω	-	
volume resistivity		10 <sup>14</sup>	Ω*cm	-	
Other properties	parameter	value	unit	norm	comment
Water absorption	24h / 96h (23°C)	0.2 / 0.4	%	DIN EN ISO 62	1)
Resistance to hot water/ bases	(+)		-		2)
Resistance to weathering	-		-		3)
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	4)

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