

TECAMID 66 GF35 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PA 66 (Polyamide 66)

Colour ivory opaque

Density

1.4 g/cm³

Fillers

glass fibres

Data generated directly after machining (standard climate Germany).

- → very high stiffness
- → resistant to many oils, greases and fuels
 → good wear properties
- → very high strength
- high dimensional stability
- → good heat deflection temperature
- → good weldable and bondable
- Target Industries
- → aircraft and aerospace technology
- mechanical engineering
- → automotive industry

Mechanical properties	parameter	value	unit	norm		comment	
Tensile strength	50mm/min	103	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen type 1b	
Modulus of elasticity (tensile test)	1mm/min	5500	MPa	DIN EN ISO 527-2	1)		
Elongation at yield (tensile test)	50mm/min	7	%	DIN EN ISO 527-2			
Elongation at break (tensile test)	50mm/min	11	%	DIN EN ISO 527-2			
Flexural strength		150	MPa	DIN EN ISO 178			
Modulus of elasticity (flexural test)		5100	MPa	DIN EN ISO 178			
Impact strength (Charpy)		85	kJ/m ²	DIN EN ISO 179-1eU			
Notched impact strength (Charpy)		5	kJ/m ²	DIN EN ISO 179-1eA			
Shore hardness	D	84	-	DIN EN ISO 868			
Thermal properties	parameter	value	unit	norm	-	comment	
Glass transition temperature		48	°C	DIN EN ISO 11357	1)	 (1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory. 	
Melting temperature		254	°C	DIN EN ISO 11357			
Service temperature	short term	170	°C		2)		
Service temperature	long term	110	°C				
Electrical properties	parameter	value	unit	norm	-	comment	
surface resistivity	Silver electrode, 23°C, 12% r.h.	10 ¹⁴		DIN IEC 60093		(1) Due to moisture uptake of the material the electrical insulation properties cannot be 100% guaranteed, despite single measurements suggesting otherwise.	
volume resistivity	Silver electrode, 23°C, 12% r.h.	10 ¹⁴		DIN IEC 60093	1)		
Other properties	parameter	value	unit	norm		comment	
Resistance to hot water/ bases		(+)		-	1)	(1) (+) limited resistance	
Resistance to weathering	ering (+)					(2) Corresponding means no listing at UL (yellow card). The	
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	2)	information might be taken from resin, stock shape or estimation. Individual testing	

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Version: AE