

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

Chemical Designation PA 66 (Polyamide 66)

Colour black opaque

Density 1.4 g/cm³

Fillers

machining (standard climate Germany).

Main features

- 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

glass fibres
Data generated directly after

Mechanical properties	condition	value	unit	test method		comment	
Tensile strength	50mm/min	98	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen	
Modulus of elasticity (tensile test)	1mm/min	5700	MPa	DIN EN ISO 527-2	1)	type 1b	
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		149	MPa	DIN EN ISO 178		•	
Modulus of elasticity (flexural test)		5100	MPa	DIN EN ISO 178			
Impact strength (Charpy)		80	kJ/m ²	DIN EN ISO 179-1eU		·	
Notched impact strength (Charpy)		5	kJ/m ²	DIN EN ISO 179-1eA			
Thermal properties	condition	value	unit	test method		comment	
Glass transition temperature		48	°C	DIN EN ISO 11357	1)	(1) Found in public sources.	
Melting temperature		254	°C	DIN EN ISO 11357		(2) Found in public sources. Individual testing regarding application conditions is mandatory.	
Service temperature	short term	170	°C		2)		
Service temperature	long term	110	°C			_ manadoly:	
Electrical properties	condition	value	unit	test method		comment	
surface resistivity Silver electrode, 23 12% r.h.		10 ¹⁴		DIN IEC 60093		(1) Due to moisture uptake of the material the electrical	
volume resistivity	Silver electrode, 23°C, 12% r.h.	10 ¹⁴		DIN IEC 60093	1)	 insulation properties cannot be 100% guaranteed, despite single measurements suggesting otherwise. 	
Other properties	condition	value	unit	test method		comment	
Resistance to hot water/ bases		(+)		-	1)	 (1) (+) limited resistance (2) Corresponding means no listing at UL (yellow card). The 	
Resistance to weathering		(+)					
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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regarding application conditions is mandatory.

Target Industries

- → aircraft and aerospace technology
- mechanical engineering