

TECAMID 66 GF15 FR black - Stock Shapes (rods, plates, tubes)

Chemical Designation

PA 66 (Polyamide 66)

Colour

black

Density

1.3 g/cm³

Fillers

flame retardant (halogen free), glass fibres

Main features

- resistant to many oils, greases and fuels
- high strength

Target Industries

- aircraft and aerospace interiors
- aircraft and aerospace technology
- mechanical engineering
- transportation

The compound is in the phase of further development. The characteristic values of this product may change.

Mechanical properties	condition	value		test method	comment
Modulus of elasticity (tensile test)	@ 73 °F	465,000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	6,890	psi	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F	5.8	%	ASTM D 638	
Flexural strength	@ 73 °F	17,200	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	722,000	psi	ASTM D 790	
Compression strength	1% / 10% strain	3,900/21,500	psi	ASTM D 695	
Compression modulus		386,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	0.70	ft-lbs/in	ASTM D 256	
Rockwell hardness	M scale	85		ASTM D 785	
Rockwell hardness	R Scale	118		-	
Thermal properties	condition	value		test method	comment
Melting temperature		487	°F	-	(1) publicly sourced data (2) publicly sourced data
Service temperature	Long Term	230	°F	-	1)
Service temperature	Intermittent	338	°F	-	2)
Other properties	condition	value		test method	comment
Flammability	60 seconds Vertical Bunsen Burner test	pass		AITM 2.0002A	1) (1) 4 mm test specimen (2) 4 mm test specimen
Flammability	15 seconds Horizontal Bunsen Burner test	pass		AITM 2.0003	2) (3) 4 mm test specimen (4) 3 mm test specimen (5) 4 mm test specimen
Flammability	Specific Optical Smoke Density	pass		AITM 2.0007B	3)
Flammability	60 seconds Vertical Bunsen Burner test 25.853 (a) Amdt 25-116 App F Part 1(a)(1)(i)	pass		FAR 25.853	4)
Flammability	Gas Toxicity, as Per Airbus directive ABD0031	pass		AITM 3.0005	5)

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