

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

Chemical Designation

PA 66 (Polyamide 66)

Colour black

Density 1.3 g/cm³

flame retardant (halogen free), glass fibres

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

Main features

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

Target Industries

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

Date: 2019/02/28

Mechanical properties	condition	value	unit	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	unit	test method		comment		
Melting temperature		487	°F	-		(1) publicly sourced data		
Service temperature	Long Term	230	°F	-	1)	(2) publicly sourced data		
Service temperature	Intermittent	338	°F	-	2)			
Other properties	condition	value	unit	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 (3) 4 mm test specimen (4) 3 mm test specimen (5) 4 mm test specimen		
Flammability	15 seconds HorizontalBunsen Burner test	pass		AITM 2.0003	2)			
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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