TECAMID 66 GF15 FR black - Stock Shapes

Chemical Designation
PA 66 (Polyamide 66)

Colour
black

Density
1.3 g/cm^3

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	@ 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	Intermittent	338	°F	-	1)	
Service temperature	Long Term	230	°F	-	2)	

Other properties	condition	value	test method		comment
Flammability	60 seconds Vertical Bunsen Burner test 25.853 (a) Amdt 25-116 App F Part 1(a)(1)(i)	pass	FAR 25.853	1)	(1) 3 mm test specimen (2) 4 mm test specimen (3) 4 mm test specimen (4) 4 mm test specimen (5) 4 mm test specimen
Flammability	60 seconds Vertical Bunsen Burner test	pass	AITM 2.0002A	2)	
Flammability	Specific Optical Smoke Density	pass	AITM 2.0007B	3)	
Flammability	Gas Toxicity, as Per Airbus directive ABD0031	pass	AITM 3.0005	4)	
Flammability	15 seconds HorizontalBunsen Burner test	pass	AITM 2.0003	5)	

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