

Epramid® 6.6 GF30

Compared with unfilled PA 66, this 30% glass fiber reinforced and heat stabilized PA grade offers increased strength, stiffness, creep resistance and dimensional stability and also an excellent wear resistance. It also allows higher maximum service temperatures.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	PA6.6-GF30	
Density:	ISO 1183-1	1,32	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	1,7	%
Water absorption in Air (23°C / 100% RH)	ISO 62	5,5	%
Resistance to hot water	n/a	=	
Weather resistance	n/a	=	
Mechanical properties			
Elongation at break:	ISO 527	5	%
Ball indentation hardness	ISO 2039	165	MPa
Tensile modules of elasticity	ISO 527	5000	MPa
Charpy impact strength - notched	ISO 179	6	kJ/m2
Charpy impact strength - unnotched	ISO 179	50	kJ/m2
Compressive stress at 1%	n/a	25	MPa
Coefficient of friction	ASTM D 1894	0,25-0,4	
Thermal properties			
Melting temperature	n/a	254	°C
Max. allowable service temp (short period)	n/a	180	°C
Max. allowable service temp (long period)	n/a	110	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	50	x10 ⁻⁶ m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,014	Ω
Electric strength	ISO 60243	18	kV/mm
Volume resistivity	ISO 60093	10 ¹⁴	Ω.cm

Date of issue: 3 May 2018

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or in-complete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.