

Epramid® G

A cast polyamide that is highly abrasion resistant and has high compressive strength in combination with good creep resistance. The material is highly impact resistant and very tough. PA6G has excellent resistance to oils, fats and most cleaning agents. It is not resistant to acids and alkalis. This material quality is also available in large, solid castings.

General properties

	Test method	Value	Unit
ISO code:	ISO 1183	PA6G	
Density:	ISO 1183-1	1,15	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	2,2	%
Water absorption in Air (23°C / 100% RH)	ISO 62	6,5	%
Resistance to hot water	n/a	=	
Weather resistance	n/a	-	

Mechanical properties

Elongation at break:	ISO 527	>40	%
Ball indentation hardness	ISO 2039	160	MPa
Tensile modules of elasticity	ISO 527	3100	MPa
Charpy impact strength - notched	ISO 179	3	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	30	MPa
Coefficient of friction	ASTM D 1894	0,4-0,6	

Thermal properties

Melting temperature	n/a	215	°C
Max. allowable service temp (short period)	n/a	170	°C
Max. allowable service temp (long period)	n/a	100	°C
Min. service temperature	n/a	-30	°C
Coefficient of linear expansion	n/a	70	x10 ⁻⁶ m/(m*K)
Flammability	UL94	HB	

Electrical properties

Dielectric dissipation (at 1MHz)	ISO 60250	0,02	Ω
Electric strength	ISO 60243	20	kV/mm
Volume resistivity	ISO 60093	>10 ¹⁴	Ω.cm

Date of issue: 4 May 2018

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