

Epramid® G-Oil

This internally lubricated cast nylon is self-lubricating. It is especially developed for unlubricated, highly loaded and slowly moving parts applications, yields a considerable enlargement of the application opportunities compared to standard cast nylons. It offers a reduced coefficient of friction (up to 50% lower), considerably increasing the pressure-velocity capabilities, and a vastly improved wear resistance (up to 10 times better).

General properties	Test method	Value	Unit
ISO code:	ISO 1183	PA6G mod.	
Density:	ISO 1183-1	1,13	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	2	%
Water absorption in Air (23°C / 100% RH)	ISO 62	6	%
Resistance to hot water	n/a	=	
Weather resistance	n/a	-	
Mechanical properties			
Elongation at break:	ISO 527	50	%
Ball indentation hardness	ISO 2039	145	MPa
Tensile modules of elasticity	ISO 527	3000	MPa
Charpy impact strength - notched	ISO 179	4	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	25	MPa
Coefficient of friction	ASTM D 1894	0,2-0,35	
Thermal properties			
Melting temperature	n/a	213	°C
Max. allowable service temp (short period)	n/a	160	°C
Max. allowable service temp (long period)	n/a	100	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	70	x10 ⁻⁶ m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,03	Ω
Electric strength	ISO 60243	21	kV/mm
Volume resistivity	ISO 60093	>10 ¹²	Ω.cm

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