

Epramid® 6.6 X-MO

By adding MoS₂ this material becomes somewhat stiffer, harder and dimensionally more stable than unfilled PA 66, but results in some loss of impact strength. The nucleating effect of the molybdenum disulphide results in an improved crystalline structure enhancing bearing and wear properties.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	PA6.6 mod.	
Density:	ISO 1183-1	1,15	g/cm ³
Water absorption in Air (23°C / 50% RH)	ISO 62	2,3	%
Water absorption in Air (23°C / 100% RH)	ISO 62	7,8	%
Resistance to hot water	n/a	=	
Weather resistance	n/a	=	
Mechanical properties			
Elongation at break:	ISO 527	20	%
Ball indentation hardness	ISO 2039	165	MPa
Tensile modules of elasticity	ISO 527	3200	MPa
Charpy impact strength - notched	ISO 179	4	kJ/m ²
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m ²
Compressive stress at 1%	n/a	20	MPa
Coefficient of friction	ASTM D 1894	0,35-0,55	
Thermal properties			
Melting temperature	n/a	250	°C
Max. allowable service temp (short period)	n/a	170	°C
Max. allowable service temp (long period)	n/a	95	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	80	x10 ⁻⁶ m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,06	Ω
Electric strength	ISO 60243	17	kV/mm
Volume resistivity	ISO 60093	10 ¹⁴	Ω.cm

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