

Eriflon® PTFE

Very smooth material with the lowest friction coefficient of all plastics. It also has a high permissible operating temperature (unloaded) and is universally chemical resistant. The material has a low yield strength, is not very durable but has very good "stick-slip" properties.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	PTFE	
Density:	ISO 1183-1	2,16	g/cm ³
Water absorption in Air (23°C / 50% RH)	ISO 62	0,01	%
Water absorption in Air (23°C / 100% RH)	ISO 62	n/a	%
Resistance to hot water	n/a	+	
Weather resistance	n/a	+	
Mechanical properties			
Elongation at break:	ISO 527	≥200	%
Ball indentation hardness	ISO 2039	≥23	MPa
Tensile modules of elasticity	ISO 527	750	MPa
Charpy impact strength - notched	ISO 179	n/a	kJ/m ²
Charpy impact strength - unnotched	ISO 179	n/a	kJ/m ²
Compressive stress at 1%	n/a	≥4	MPa
Coefficient of friction		0,06-0,08	
Thermal properties			
Melting temperature	n/a	325	°C
Max. allowable service temp (short period)	n/a	300	°C
Max. allowable service temp (long period)	n/a	250	°C
Min. service temperature	n/a	-200	°C
Coefficient of linear expansion	n/a	>120	x10 ⁻⁶ m/(m*K)
Flammability	UL94	V0	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	n/a	Ω
Electric strength	ISO 60243	n/a	kV/mm
Volume resistivity	ISO 60093	10 ^{^18}	Ω.cm

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