

Epratal® H-TF

This material is a Homopolymer polyacetal filled with PTFE fibers. Some properties change due to the addition of the PTFE fiber which is softer, less stiff and smoother than pure POM raw material.

Sliding elements exhibit a low coefficient of friction, wear out and are practically free of stick-slip.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	POM mod.	
Density:	ISO 1183-1	1,5	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	0,17	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,72	%
Resistance to hot water	n/a	-	
Weather resistance	n/a	-	
Mechanical properties			
Elongation at break:	ISO 527	8	%
Ball indentation hardness	ISO 2039	140	MPa
Tensile modules of elasticity	ISO 527	2900	MPa
Charpy impact strength - notched	ISO 179	20	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	19	MPa
Coefficient of friction	ASTM D 1894	0,2-0,3	
Thermal properties			
Melting temperature	n/a	175	°C
Max. allowable service temp (short period)	n/a	150	°C
Max. allowable service temp (long period)	n/a	105	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	95	x10 -6 m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,008	Ω
Electric strength	ISO 60243	16	kV/mm
Volume resistivity	ISO 60093	>10^14	Ω.cm

Date of issue: 4 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.