

Epratal® P

This material is a very strong, stiff and resilient, pressed material. In contrast to other qualities, this material is almost stress-free. The material has a low moisture absorption and a high resistance to cold flow. It is also resistant to organic solvents. The material is moderately UV-resistant.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	POM mod.	
Density:	ISO 1183-1	1,34	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	0,2	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,8	%
Resistance to hot water	n/a	-	
Weather resistance	n/a	-	
Mechanical properties			
Elongation at break:	ISO 527	15	%
Ball indentation hardness	ISO 2039	110	MPa
Tensile modules of elasticity	ISO 527	2200	MPa
Charpy impact strength - notched	ISO 179	4	kJ/m2
Charpy impact strength - unnotched	ISO 179	30	kJ/m2
Compressive stress at 1%	n/a	n/a	MPa
Coefficient of friction	ASTM D 1894	0,2-0,3	
Thermal properties			
Melting temperature	n/a	164	°C
Max. allowable service temp (short period)	n/a	140	°C
Max. allowable service temp (long period)	n/a	100	°C
Min. service temperature	n/a	-40	°C
Coefficient of linear expansion	n/a	120	x10 -6 m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,003	Ω
Electric strength	ISO 60243	35	kV/mm
Volume resistivity	ISO 60093	>10^13	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.