

Epratal® H

Homopolymer polyacetal with high mechanical strength and hardness. This quality is less resistant to hydrolysis than the copolymer (POM C). The material has a very high resilience and fatigue resistance. The dimensional and creep resistance is excellent, the abrasion resistance is limited. The material is extremely easy to machine (short-chipping).

General properties	Test method	Value	Unit
ISO code:	ISO 1183	POM H	
Density:	ISO 1183-1	1,4	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	30	%
Ball indentation hardness	ISO 2039	160	MPa
Tensile modules of elasticity	ISO 527	3200	MPa
Charpy impact strength - notched	ISO 179	10	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	0,3-0,4	
Thermal properties			
Melting temperature	n/a	180	°C
Max. allowable service temp (short period)	n/a	150	°C
Max. allowable service temp (long period)	n/a	90	°C
Min. service temperature	n/a	-50	°C
Coefficient of linear expansion	n/a	95	x10 -6 m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	0,002	Ω
Electric strength	ISO 60243	20	kV/mm
Volume resistivity	ISO 60093	>10^14	Ω.cm

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