

Epratal® BG

This material is a variant of polyacetal with a uniformly dispersed solid lubricant. This addition results in a lower friction coefficient and an improvement in the sliding properties.

General properties	Test method	Value	Unit
ISO code:	ISO 1183	POM BG	
Density:	ISO 1183-1	1,35	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	n/a	
Weather resistance	n/a	n/a	
Mechanical properties			
Elongation at break:	ISO 527	10	%
Ball indentation hardness	ISO 2039	n/a	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	
Thermal properties			
Melting temperature	n/a	n/a	°C
Max. allowable service temp (short period)	n/a	120	°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	n/a	Ω
Electric strength	ISO 60243	35	kV/mm
Volume resistivity	ISO 60093	10^14	Ω.cm

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