

**Raw Material** Acetal (POM)

General Properties	Test Method	Unit	Value
Density	ISO 1183	g/cm <sup>3</sup>	1.39
Water Absorption In Air 50% r.h.	ISO 62	%	0.2
Absorption 23-C In Water-Saturation	ISO 62:1999(modified)	%	0.65
Food Compliance	-	FDA/BfR	YES
UV Stability	-	-	YES
Mechanical Properties			
Tensile Strength At Yield At Break	ISO 527-1/2:1993	N/mm <sup>2</sup>	63
Elongation at Break	ISO 527-1/2:1993	%	31
Tensile Modulus Of Elasticity	ISO 527-1/2:1993	N/mm <sup>2</sup>	2600
Impact Strength Charpy 7.5 J	ISO 604:2002	KJ/mm <sup>2</sup>	NO BREAK
Notched Impact Strenght Charpy	ISO 180:2000	KJ/mm <sup>2</sup>	6
Ball Indentation Hardness	-	N/mm <sup>2</sup>	125
Rockwell Hardness	ISO 868:2003	Scale M	88
Coefficient Of Friction To Steel	-	-	0.35
Thermal Properties			
Melting Temperature	ISO 3146	°C	165
Thermal Conductivity	ISO 8301:1991	W/(km)	0.3
Deformation at temperature HDT	ISO 75	°C	95
Linear Expansion Coeficient 23-60Degrees	ISO 11359-2:1999	10 <sup>-6</sup> K <sup>-1</sup>	120
Service Temperature, Long Term	Average	°C	100
Service Temperature, Short Term (MAX)	Average	°C	140
Minimum Operating Temperature	Average	°C	-50
Flammability	UL 94 (3-6mm thickness)	-	HB
Electrical Properties			
Dielectric Constant	ISO 250	-	3.8
Dissipation Factor Tan Δ at 1 MHz	ISO 250	-	0.005
Volume Resistivity	ISO 93	Ωm	1 x 10 <sup>15</sup>
Dielectric Strength	ISO 243	KV/mm	40

### Applications:

- Crane Sheaves
- Carriage Wheels
- Outrigger Pads
- Heavy Load Bearings

### Characteristics:

- Excellent Mechanical Strength
- High Chemical Resistance
- Excellent Wear Resistance
- Very good Sliding Properties



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