

## POM Acetal Properties Data Sheet

Technical Data	Method of Verification	Unit	Value
<b>Physical Properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.45
Water absorption	ISO 62	%	< 0.3
<b>Mechanical Properties</b>			
Tensile strength at yield	ISO 527-2	MPa	63
Tensile strength at break	ISO 527-2	Mpa	-
Elongation at break	ISO 527-2	%	31
Modulus of elasticity after tensile test	ISO 527-2	MPa	1,900
Modulus of elasticity after flexural test	ISO 178	MPa	1,800
Hardness-Rockwell	ISO 2039-2		78
Hardness - Shore D	DIN 53505		83
Charpy impact strength at 23 °C	ISO 179	kJ/m <sup>2</sup>	N. B.
Friction coefficient	DIN 53375		0.35
<b>Thermal Properties</b>			
Heat deflection temperature - HDT/A	ISO 75-2	°C	110
Max. service temperature - Short term		°C	140
Max. service temperature - Long term		°C	100
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.31
Coefficient of linear thermal expansion	ISO 11359	10 <sup>-4</sup> K <sup>-1</sup>	1.2
<b>Electrical Properties</b>			
Dielectric constant at 1 MHz	IEC 60250	10 <sup>6</sup> Hz	3.8
Dielectric loss factor at 1 MHz	IEC 60250	10 <sup>6</sup> Hz	0.005
Volume resistively	IEC 60093	Ohm (Ω) * cm	> 10 <sup>13</sup>
Surface resistively	IEC 60093	Ohm (Ω)	> 10 <sup>13</sup>
Dielectric strength	IEC 60243-1	kV/mm	40
<b>Miscellaneous Data</b>			
Flammability	UL 94	Class	HB
NOTE: 1 g/cm <sup>3</sup> = 1,000 kg/m <sup>3</sup> , 1 Mpa = 1 N/mm <sup>2</sup> , 1kV/mm = 1 MV/m			

### Statement:

The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Energetic will not provide any legally binding guarantee of certain properties, or any suitability.