



TYNACETAL-C BLACK

Raw Material Acetal (POM)

General Properties	Test Method	Unit	Value
Density	ISO 1183	g/cm ³	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 ²	63
Elongation at Break	ISO 527-1/2:1993	%	31
Tensile Modulus Of Elasticity	ISO 527-1/2:1993	N/mm ²	2600
Impact Strength Charpy 7.5 J	ISO 604:2002	KJ/mm ²	NO BREAK
Notched Impact Strenght Charpy	ISO 180:2000	KJ/mm ²	6
Ball Indentation Hardness	-	N/mm ²	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 Coefficient 23-60Degrees	ISO 11359-2:1999	10 ⁻⁶ K ⁻¹	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 Tanat 1 MHz	ISO 250	-	0.005
Volume Resistivity	ISO 93	m	1 x 10 ¹⁵
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



All information contained in this literature corresponds with our current knowledge of the products. Tynic Automation assume no liability whatsoever in respect of application, conversion or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, conversion or use of the aforementioned information or products. Existing intellectual property rights must be observed and Tynic Automation reserve the right to make technical alterations.

