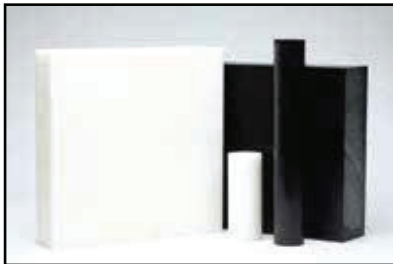


# ERTACETAL® C

Copolymer Acetal



\*\* ERTACETAL® is the registered trademark of

**mitsubishi chemical  
advanced materials**

### PRODUCT CAPABILITIES:

- Rod : Dia. 3mm - 320mm
- Heavy Gauge Sheet : 0.5mm - 120mm
- Tube : OD. 20mm - 350mm

### ADVANTAGES:

- High Mechanical Strength, Stiffness And Hardness
- Excellent Resilience
- Good Creep Resistance
- High Impact Strength, Even At Low Temperatures
- Very Good Dimensional Stability (Low Water Absorption)
- Good Sliding Properties And Wear Resistance
- Excellent Machinability

### PRODUCT COLORS:

- White (Natural)
- Black

### APPLICATIONS INCLUDE:

- Gear Wheels With Small Modulus
- Cams
- Heavily Loaded Bearings And Rollers
- Valve Seats
- Bearings And Gears With Small Clearances

GENERAL PROPERTIES	ASTM or UL Test	ERTACETAL® C Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.20
<b>MECHANICAL</b>		
Tensile Strength (psi)	D638	9,500
Tensile Strain at Break (%)	D638	30
Tensile Modulus of Elasticity (psi)	D638	400,000
Charpy Impact Strength, Un-Notched (kJ/m <sup>2</sup> )	-	-
Charpy Impact Strength, Notched (kJ/m <sup>2</sup> )	-	-
IZOD Impact Strength, Notched (ft.lb./in)	D256	1
Rockwell Hardness	D785	M 84
<b>THERMAL</b>		
Coeff. of Linear Thermal Expansion (in./in./°F)	E831	5.4 x 10 <sup>-5</sup>
Heat Deflection Temp (°F) @ 1.8 MPa	D648	220
Thermal Conductivity at 23 °C (BTU IN./Chr.ft. <sup>2</sup> °FJ)	-	1.60
Melting Temperature (°F)	D3418	335
Flammability Rating @ ( 3 mm thickness )	UL-94	HB
<b>ELECTRICAL</b>		
Surface Resistivity (ohms/sq)	ANSI / ESO STM11.11	> 10 <sup>13</sup>
Volume Resistivity (ohm-cm)	IEC 60093	> 10 <sup>14</sup>
Dielectric Dissipation Factor Tan δ : at 100 Hz	D150	0.005

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

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