



ERTACETAL® H

Homopolymer Acetal



** ERTACETAL® is the registered trademark of

**MITSUBISHI CHEMICAL
ADVANCED MATERIALS**

PRODUCT CAPABILITIES:

- Rod : 1/4" to 4"
- Heavy Gauge Sheet : 0.25" to 3"

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® H Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.41
Water Absorption, 24 hrs (%)	D570	0.20
MECHANICAL		
Tensile Strength (psi)	D638	11,000
Tensile Strain at Break (%)	D638	30
Tensile Modulus of Elasticity (psi)	D638	450,000
IZOD Impact Strength, Notched (ft.lb./in)	D256	1
Rockwell Hardness	D785	M 88
THERMAL		
Coeff. of Linear Thermal Expansion (in./in./°F)	-	4.7 x 10 ⁻⁵
Heat Deflection Temp (°F / °C) @ 1.8 MPa	D648	250 / 121
Thermal Conductivity at 23 °C (BTU in./[hr-ft ² .°F])	-	2.50
Melting Temperature (°F / °C)	-	347 / 175
Flammability Rating @ (3 mm thickness)	UL-94	HB
ELECTRICAL		
Surface Resistivity (ohms/sq)	ANSI / ESD STM 11.11	> 10 ¹³
Volume Resistivity (ohm-cm)	{60093}	> 10 ¹⁴
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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