



** ERTACETAL® is the registered trademark of

QUADRANT

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
PHYSICAL		
Specific Gravity (g/cm ³)	1183	1.41
Water Absorption, 24 hrs (%)	62	0.24
MECHANICAL		
Tensile Stress at Yield (MPa)	527	68
Tensile Strain at Break (%)	527	35
Tensile Modulus of Elasticity (MPa)	527	3,100
Charpy Impact Strength, Un-Notched (kJ/m ²)	179/1eU	≥150
Charpy Impact Strength, Notched (kJ/m ²)	179/1eA	7
IZOD Impact Strength, Notched (kJ/m ²)	180/2A	7
Rockwell Hardness	2039-2	M 84
THERMAL		
Coeff. of Linear Thermal Expansion (m/[m.k])	-	110 x 10 ⁻⁶
Heat Deflection Temp (°F / °C) @ 1.8 MPa	75	221 / 105
Thermal Conductivity at 23 °C (W/[m.k])	-	0.31
Melting Temperature (°F / °C)	-	329 / 165
Flammability Rating @ (3 mm thickness)	UL-94	HB
ELECTRICAL		
Surface Resistivity (ohms/sq)	{60093}	> 10 ¹³
Volume Resistivity (ohm-cm)	{60093}	> 10 ¹⁴
Dielectric Dissipation Factor Tan δ : at 100 Hz	{60250}	0.003

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.