



** ERTALON® is the registered trademark of

QUADRANT

Nylon is one of the most widely used plastics in the world, especially as a bearing and wear material. Nylons are frequently used as replacements for bronze, brass, aluminum, steel and other metals, as well as other plastics, wood, and rubber.

ADVANTAGES:

- High Mechanical Strength, Stiffness, Hardness And Toughness · Good Fatigue Resistance
- High Mechanical Damping Ability · Good Sliding Properties · Excellent Wear Resistance
- Good Electrical Insulating Properties · High Resistance Against High Energy Radiation (Gamma And X-rays) · Good Machinability

APPLICATIONS INCLUDE:

- Sleeve And Slide Bearings · Cutting And Chopping Boards · Support And Guide Wheels
- Sleeves For Wheels And Rollers, Pulleys And Pulley-Linings, Cams · Conveyor Rollers · Tension Rollers · Buffer Blocks · Hammer Heads · Scrapers · Gear Wheels · Starwheels · Sprockets · Feed Screws · Seal-Rings · Wear Pads · Insulators

GENERAL PROPERTIES	Test Methods ISO / (IEC)	ERTALON 6 SA (Extruded)	ERTALON 6 PLA (CAST)	ERTALON LFX (Lubricated Cast)
Colour		○ White ● Black	● Ivory ● Black	● Green
PHYSICAL				
Specific Gravity (g/cm ³)	1183	1.14	1.15	1.135
Water Absorption, 24 hrs (%)	62	1.28	0.65	0.66
MECHANICAL @ 73°F				
Tensile Stress at Yield (MPa)	527	76	85	70
Tensile Strain at Break (%)	527	>50	25	25
Tensile Modulus of Elasticity (MPa)	527	3,250	3,500	3,000
Charpy Impact Strength, Un-Notched (kJ/m ²)	179/1eU	No Break	No Break	≥50
Charpy Impact Strength, Notched (kJ/m ²)	179/1eA	5.5	3.5	4
IZOD Impact Strength, Notched (kJ/m ²)	180/2A	5.5	3.5	4
Rockwell Hardness	2039-2	M 85	M88	M82
THERMAL				
Coeff. of Linear Thermal Expansion (m/[m.k])	-	90 x 10 ⁻⁶	80 x 10 ⁻⁶	80 x 10 ⁻⁶
Heat Deflection Temp (°F / °C) @ 1.8 MPa	75	158 / 70	176 / 80	167 / 75
Thermal Conductivity at 23 °C (W/[m.k])	-	0.28	0.29	0.28
Flammability Rating @ (3 mm thickness)	UL-94	HB	HB	HB
ELECTRICAL				
Surface Resistivity (ohms/sq)	{60093}	> 10 ¹³	> 10 ¹³	> 10 ¹³
Volume Resistivity (ohm-cm)	{60093}	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹⁴
Dielectric Dissipation Factor Tan δ : at 100 Hz	{60250}	0.019	0.012	0.015

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.