



PACTUMAX

INTERNATIONAL PTE LTD

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Welcome to our new issue of Pactumax Monthly Advanced Product Alert for the Year 2023 – keeping you informed of new product and materials advancements.

This month's featured items are **ULTEM® 1000** and **ERTALON® 66SA**

ULTEM® 1000 possesses high dimensional stability, strength as well as superior flame and heat resistance.

ERTALON® 66SA are materials that are unmodified shapes which are characterized by superior combination of strength and toughness.

Remember, Pactumax is ***GROWING*** – we are now your **One-Stop Source** for ***all*** your materials and products' needs!

ADVANCED PRODUCT ALERT OF THE MONTH

ULTEM® 1000

Manufactured by



PRODUCT OVERVIEW

ULTEM® 1000 possesses high dimensional stability, strength as well as superior flame and heat resistance. In addition, **ULTEM® 1000** is able to perform continuously to a temperature of 340 °F /170 °C, this will make this material an ideal solution for applications that require consistent dielectric properties over a wide frequency range. **ULTEM® 1000** has other functions such as chemical resistance and hydrolysis which will apply autoclaving cycles in medical, pharmaceutical, and biotechnology markets.

ULTEM® 1000



ADVANTAGES

- Inherent Flame Resistance
- Extremely Low NBS Smoke Evolution
- Exceptional Tensile & Flexural Strength
- High Dielectric Strength
- Stable Electrical Properties Over a Wide Range of Temperatures & Frequencies
- Broad Chemical Resistance
- FDA Compliant

PRODUCT COLORS

- Light Amber
- Black

APPLICATIONS

- Structural & Surgical Probes
- Manifolds in Pharmaceutical Process Equipment
- High Frequency Insulators used in Microwave Communications
- Semiconductor
- Pump Housings

TYPICAL PROPERTIES OF ULTEM® 1000

| GENERAL PROPERTIES | ASTM or UL TEST | ULTEM® 1000 Typical Values |
|--|-----------------|----------------------------|
| PHYSICAL | | |
| Specific Gravity | D792 | 1.28 |
| Water Absorption, 24 hrs (%) | D570 | 0.25 |
| MECHANICAL | | |
| Tensile Strength (psi) | D638 | 17,000 |
| Tensile Modulus of elasticity (KSI) | D638 | 500 |
| Tensile Strain Elongation at Yield (%) | D638 | 6.90 |
| Tensile Strain Elongation at Break (%) | D638 | 32 |
| Flexural Strength (psi) | D790 | 20,000 |
| Flexural Modulus of Elasticity (KSI) | D790 | 500 |
| IZOD Notched Impact (ft-lb/in) | D256 | 0.50 |
| Rockwell M Hardness | D785 | 112 |
| THERMAL | | |
| Coefficient of Thermal Expansion ($\mu\text{in./in./}^\circ\text{F}$) | E831 | 31 |
| Heat Deflection Temperature, ($^\circ\text{F/}^\circ\text{C}$) @ 264 psi | D648 | 400/195 |
| Max Operating Temperature ($^\circ\text{F/}^\circ\text{C}$) | - | 340/170 |
| Thermal Conductivity (BTU in./hr.ft ² . $^\circ\text{F}$) | - | 1.23 |
| Flammability Rating (UL94) (3mm (1/8 in.)) | - | V-0 |
| ELECTRICAL | | |
| Electric Strength (V/mil) | D149 | 830 |
| Dielectric Constant at 1 MHz | D150 | 3.15 |
| Dissipation factor at 1 MHz | D150 | 0.0013 |
| Volume Resistivity (ohm.cm) | IEC 60093 | - |

ERTALON® 66SA

Manufactured by



PRODUCT OVERVIEW

ERTALON® 66SA are materials that are unmodified shapes which are characterized by superior combination of strength and toughness. Other properties of **ERTALON® 66SA** include superior wear resistance, stiffness and mechanical strength. The material grade is FDA 21 CFR & 177.1500 compliant as well. Applications includes bushings, bearings, gears, roller wheels and seals.

ERTALON® 66SA



PRODUCT COLORS

- White
- Black

ADVANTAGES

- High Mechanical Strength, Stiffness
- Good Fatigue Resistance
- High Mechanical Damping Ability
- Good Sliding Properties
- Excellent Wear Resistance
- Good Electrical Insulating Properties

APPLICATIONS

- Sleeve and Slide Bearings
- Cutting and Chopping Boards
- Support and Guide Wheels
- Sleeves for Wheels and Rollers
- Pulleys and Pulley-Linings

TYPICAL PROPERTIES OF ERTALON® 66SA

| GENERAL PROPERTIES | ASTM or UL TEST | ERTALON® 66SA Typical Values |
|---|--------------------|------------------------------|
| PHYSICAL | | |
| Specific Gravity | D792 | 1.15 |
| Water Absorption, 24 hrs (%) | D570 | 0.3 |
| MECHANICAL | | |
| Tensile Strength (psi) | D638 | 12,000 |
| Tensile Strain (Elongation) at Break (%) | D638 | 50 |
| Tensile Modulus of Elasticity (KSI) | D638 | 425 |
| IZOD Notched Impact (ft-lb/in) | D256 | 0.6 |
| Rockwell M Hardness | D785 | 85 |
| THERMAL | | |
| Coefficient of Thermal Expansion ($\mu\text{in./in./}^\circ\text{F}$) | E831 (TMA) | 55 |
| Heat Deflection Temperature ($^\circ\text{F/}^\circ\text{C}$) @ 264 psi | D648 | 200/85 |
| Thermal Conductivity (BTU in./(hr.ft ² . $^\circ\text{F}$)) | - | 1.7 |
| Flammability Rating UL94 (3mm (1/8 in.)) | - | HB (V-2 @5mm) |
| ELECTRICAL | | |
| Surface Resistivity (ohm/sq) | ANSI/ESD STM 11.11 | 10^{13} |
| Volume Resistivity (ohm.cm) | IEC 60093 | - |
| Dissipation Factor at 1MHz | ASTM D150 | 0.0200 |

Cup Mount

Manufactured by



Established in 1948, Reid Supply, a division of Essentra, also known as Reid Tool Supply back in the day, is a premier provider of over 40,000 industrial components to the North American manufacturing market. We offer a comprehensive line of quality industrial components and are well known for our broad range of clamps & work holding products, knobs, handles, & hand wheels, tooling & positioning components, feet, casters & vibration mounts

Cup Mount



Base Diameter = 76.2mm, 3.00 in

Minimum Load Capacity = 40.8 kg

Maximum Load Capacity = 113.4 kg

Thread Size = 3/8-16

1.50 in high 3/8-16 threaded 4 Hole Flange Cup Mount

protects against vibration and noise up to Non-Impact Loads
or Impact Loads

Manufacturer Part Number: 52084

Cup Mount is designed to have excellent protection against shock, vibration, and noise in compression and shear applications in harsh environments. The shape is domed to guard against oil contamination with a compact, low-profile design.

Cup Mount with the 4 Hole Flange offers high levels of protection against severe impact shock with efficient vibration isolation characteristics at frequencies above 40 Hz. These type of Cup Mount can be mounted/installed in any direction to protect sensitive equipment.

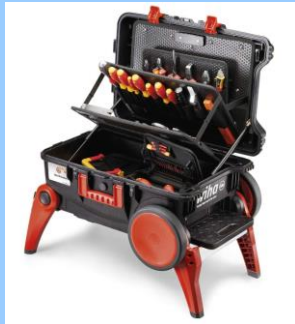
Tool case set XXL III electric

Manufactured by



Wiha seeks to make daily life much easier for users with a product assortment of innovative hand tool solutions geared towards user needs. This is why Wiha develops, designs and manufactures products that meet the strictest requirements for quality, functionality, durability and ergonomic design. As a trusted, strategic partner of specialist retailers, Wiha offers a wide range of quality products for the professional segment.

Tool case set XXL III electric



Tool case set XXL III electric has a great variety of tools at different locations. This case has ample storage space, an array of tool assortment and the case is made of robust material.

Tool case set XXL III electric is equipped with extra-large size wheels to allow an easier transportation across tricky terrains or staircases. The legs are designed to be folded out to make the case slip-proof. In addition, the lifted case will provide the user with more comfort to access the tools.

Tool case set XXL III electric is designed to have a V-Shaped incision with a scale located in the lid area of the case for sawing purposes such as materials like cable ducts.

Tool case set XXL III electric has a wide variety of tools such as mobile screwdriver, innovative plier solutions, ergonomic screwdrivers & slimVario®, etc. These tools assist with day to day work and activities. Furthermore, tools that required to work on live parts are fully insulated.

The tools in the **Tool case set XXL III electric** are ergonomically designed by Wiha to ensure that the user's comfort while working on a job.

Tool case set XXL III electric's case material is made of robust polypropylene. In addition, the case is also filled with gas-filled shock absorbers which hold the lid in multiple positions. This will prevent closing accidentally on fingers.

For more information on our products and availability, please do not hesitate to contact our nearest Pactumax International office, or e-mail us at sales@pactumax.com. We look forward to hearing from you!

Highlights from the next issue of Pactumax Monthly Advanced Product Alert –Ketron Peek CA30, Semitron ESD 480/490HR, Solid Base Leveler (Vlier) & Screwdriver with bit magazine PocketMax® electric (wiha). Stay tuned!