



**PACTUMAX**  
INTERNATIONAL PTE LTD

**Volume 16, Issue 2**

**March 2026**

Welcome to our new issue of Pactumax Monthly Advanced Product Alert for the Year 2026 – keeping you informed of new product and materials advancements.

**We will like to also introduce to you our latest wide range of products available from Carr Lane & Reid Supply, etc.**

**Click on the hyperlink below to access our e-catalogs from our website to view more:**

<https://pactumax.com/technical-resources/>

This month's featured items are **TORLON® 5030** and **KETRON® LSG CC PEEK**.

**TORLON® 5030** is a high modulus polyamide-imide engineering plastic material which contains 30% glass fibres. It is commonly used with electrical insulators and thermal isolators.

**KETRON® LSG CC PEEK** is an engineering plastic with a unique compression molded grade has a profile with high performance due to its structure that is woven by carbon fiber.

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

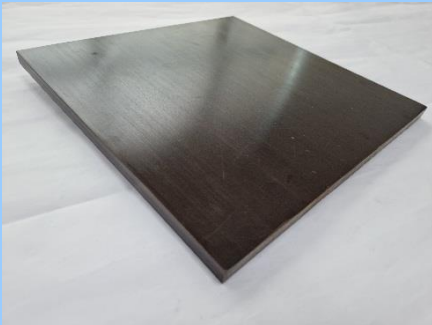
# ADVANCED PRODUCT ALERT OF THE MONTH

## TORLON® 5030

### PRODUCT OVERVIEW

**TORLON® 5030** is a high modulus polyamide-imide engineering plastic material which contains 30% glass fibres. It is commonly used with electrical insulators and thermal isolators. As compared to its counterpart TORLON® 4203, **TORLON® 5030** has a 50% lower Coefficient of Linear Thermal Expansion and does not possess conductivity of carbon fibers. In addition, **TORLON® 5030** possesses high strength and modulus. Applications include test sockets for IC's, fasteners and valve seats.

### TORLON® 5030



### PRODUCT COLORS

- Dark Brown

### ADVANTAGES

- High Service Temperature in Air (260 °C continuously)
- High Mechanical Strength, Stiffness and Creep Resistance
- Dimensionally Stable
- Low Flammability
- Good Electric Insulating and dielectric properties
- Excellent Resistance against High Energy Radiation

### APPLICATIONS

- Structural Application supporting Static Loads for long periods of time at High Temperature

## TYPICAL PROPERTIES OF TORLON® 5030

GENERAL PROPERTIES	ASTM or UL TEST	TORLON® 5030 Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.61
Water Absorption, 24 hrs (%)	D570	0.24
<b>MECHANICAL</b>		
Tensile Strength (MPa)	D638	221
Tensile Modulus (MPa)	D638	14,500
Elongation at Break (%)	D638	2.3
Flexural Strength at 23 °C (MPa)	D790	333
Flexural Modulus at 23 °C (MPa)	D790	11,700
Compressive Strength (MPa)	D695	264
Compressive Modulus (MPa)	D695	7930
Rockwell Hardness	D785	-
IZOD Notched Impact (J/m)	D256	80
<b>THERMAL</b>		
Coefficient of Thermal Expansion (cm/cm/°C)	D696	1.6 E-5
Heat Deflection Temperature (°F/ °C) @ 1.8 MPa	D648	540/282
Thermal Conductivity (W/m/K)	C177	0.36
<b>ELECTRICAL</b>		
Dielectric Strength (KV/mm)	D149	3
Dielectric Constant at 1 MHz	D150	4.20
Dissipation Factor at 1 MHz	D150	0.050
Surface Resistivity (ohms)	D257	1.0 E + 18 ohms

# KETRON® LSG CC PEEK

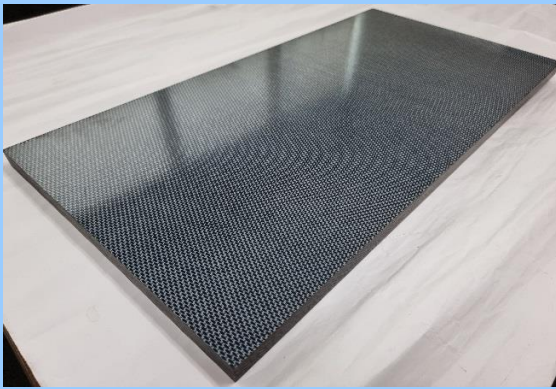
Manufactured by



## PRODUCT OVERVIEW

**KETRON® LSG CC PEEK** is an engineering plastic with a unique compression molded grade has a profile with high performance due to its structure that is woven by carbon fiber. The material composition comprised of 57% Carbon Fiber, and 43% Impregnated PEEK Polymers that are pressed into layers known as laminates. **KETRON® LSG CC PEEK** at elevating temperatures has a very high excellent mechanical strength, stiffness, friction and wear resistance. In addition, **KETRON® LSG CC PEEK** is able to deliver excellent performance even under the chemical and irradiated environments.

### KETRON® LSG CC PEEK



### PRODUCT COLORS

- Black

### ADVANTAGES

- Excellent stiffness and mechanical strength
- Excellent performance in chemical and irradiated environments
- Outstanding friction and wear resistance

### APPLICATIONS

- Provisional Trials
- Medical Device Components

## TYPICAL PROPERTIES OF KETRON® LSG CC PEEK

GENERAL PROPERTIES	ASTM or UL TEST	KETRON® LSG CC PEEK Typical Values
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.52
Water Absorption, 24 hrs (%)	D570	0.018
<b>MECHANICAL</b>		
Tensile Strength (psi)	D638	85,000
Tensile Elongation at Break (%)	D638	1.6
Flexural Strength (psi)	D790	115,000
Flexural Modulus (ksi)	D790	7,500
Rockwell Hardness (M)	D785	116
Compressive Stress at 1/2/5 % Nominal Strain (MPa)	-	-
<b>THERMAL</b>		
Coefficient of Thermal Expansion (μin./in./°F)	E-831 (TMA)	0.22
Heat Deflection Temperature, (°F/°C) @ 264 psi	D648	580/304
Thermal Conductivity (BTU in./ft <sup>2</sup> -hr-°F)	-	-
Flammability Rating @ 3mm Thickness	UL-94	V-0
<b>ELECTRICAL</b>		
Surface Resistivity (ohm/sq)	ANSI/ESD STM 11.11	≤ 10 <sup>5</sup>
Volume Resistivity (ohm-cm)	IEC 62631-3-1	-

# Hook Clamps

Manufactured by



Carr Lane Manufacturing is well known in the industry for its industrial parts and standard tooling components. It is specially known for jig & fixture tooling components. Carr Lane Manufacturing has a huge variety of products ranging up to 100,000 industrial parts, components, tools & accessories, toggle clamps, handles, knobs, etc.

## Hook Clamps



Hook Clamps are designed to be manually swung into position for clamping and will be used to secure and clamp downwards. These clamps allow clear loading while swinging away in the unclamped position.

It is suitable to work in tight spaces where high clamping force is needed. There are three variations for Hook Clamps, long arm, long armed tapered or standard arm. The available sizes are 5/16-18, 1/2-13 and 5/8-11 mounting screws (M8, M12 and M16 in metric)

These clamps can be mounted in a reamed hole, or in a Hook-Clamp Holder or Hook-Clamp Mounting Block. For high-rise clamping, Riser Cylinders are available to extend the range of standard Hook-Clamp Holders.

## Below contains the Product Range for Hook Clamps:



### **1) Hook Clamps – Tapped Long Arm (Cam Handle)**

Long-arm hook clamps are designed to have a cam handle which function as tool-less clamp without a separate wrench. These clamps allow clear loading while swinging away in the unclamped position. It is suitable to work in tight spaces where high clamping force is needed.

This clamp uses maximum cam travel by installing an adjustable contact bolt in the tapped hole. Available sizes are 5/16-18, 1/2-13 and 5/8-11 mounting screws (M8, M12 and M16 in metric)



## 2) Hook-Clamp Mounting Blocks

The mounting blocks has long-arm Hook Clamps that has built-in 90° that is designed to allow consistent arm positioning in both clamped and unclamped position. The block has two mounting holes which is used for base or side mounting. The hole is precision bored for smoother swinging movement.

Available for all three sizes of long-arm Hook Clamps for both inch and metric, manufactured in USA.



## 3) Hook-Clamp Holders

Mounting adaptor for long-arm Hook Clamps. The hole is precision bored for smoother swinging movement. Available in three sizes, with mounting screws 5/16-18, 1/2-13, and 5/8-11 (M8, M12, and M16 in metric).



## 4) Riser Cylinders

This riser has stackable function which provides additional height without taking up a lot of space. It is used for mounting Hook Clamps, Heavy-Duty Screw Jacks and Adjustable Side Stops.

The riser has integral mounting screw which can be tightened with a hex wrench. Available in three sizes, with 5/16", 1/2", and 5/8" mounting screws, each in several heights.

# Threaded Spring Plungers

Manufactured by

**Reid** SUPPLY  
AN ESSENTRA COMPANY

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.

## Threaded Spring Plungers



Threaded Spring Plungers are designed to position, locating, indexing and securing. The Index Plungers allow for rapid adjustments on a variety of applications such as platforms, fixtures and tables. It is also suitable for gym equipment, medical aids, cathering equipment and conveyors, etc. Available in two types, one threaded and no thread locking element.

## Below contains the Product Range for Threaded Spring Plungers



### 1) **3/8-16 Steel Ball Nose Spring Plunger**

This product has a 3/8 thread with a Steel Ball nose. The plunger has a body length of 0.630N in and an initial end force of 3.00 lbs. In addition, the material of the body is made of Steel.



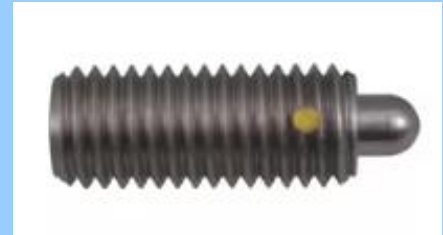
### 2) 6-32 Steel Ball Nose Spring Plunger

This product has a 6-32 thread with a Steel Ball Nose. The plunger has a body length of 0.375 in and an initial end force of 0.50 lb, the body material is made of Steel.



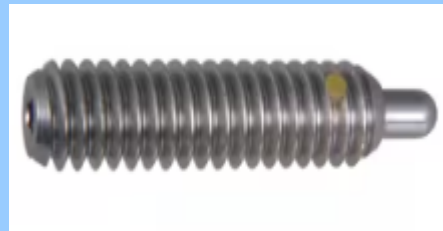
### 3) 10-32 Nylon Ball Nose Spring Plunger

This product has 10-32 thread with a Nylon Ball nose and the plunger has a body length of 0.513 inch and initial end force of 0.50 lbs, the body material is made of Steel.



### 4) 6-32 Steel Ball Nose Spring Plunger

This product has a 6-32 thread with a Steel Ball nose, the plunger has a body length of 0.380 in and an initial end force of 1.0 lbs, the body material is made of Steel



### 5) Stainless Steel Ball Nose Spring Plunger

This product is 10-32 thread with a Stainless Steel Ball nose. The plunger has a body length of 0.750 in and an initial end force of 1.30 lbs, the body material is made of Steel.

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](mailto:sales@pactumax.com). We look forward to hearing from you!

Highlights from the next issue of Pactumax Monthly Advanced Product Alert – Ceramic-Filled PEEK, SEMITRON® 520, L, T and Jig Pins (Carr Lane), Levelling Devices (Vlier), Stay tuned!