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Welcome to our new issue of Pactumax Monthly Advanced Product Alert for the Year 2022 – keeping you informed of new product and materials advancements.

This month's featured items are TORLON® 5530 and AS PLATE PVC ESEP30

TORLON® 5530 is a compression molded plastic, it comprises of a 30% glass reinforced grade that produces high levels of strength, stiffness and creep resistance.

AS PLATE PVC ESEP30 is a static-dissipative anti-static plastic material. It is used with products where its surfaces require to be reduced to avoid an accumulation of static-electricity.

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

ADVANCED PRODUCT ALERT OF THE MONTH

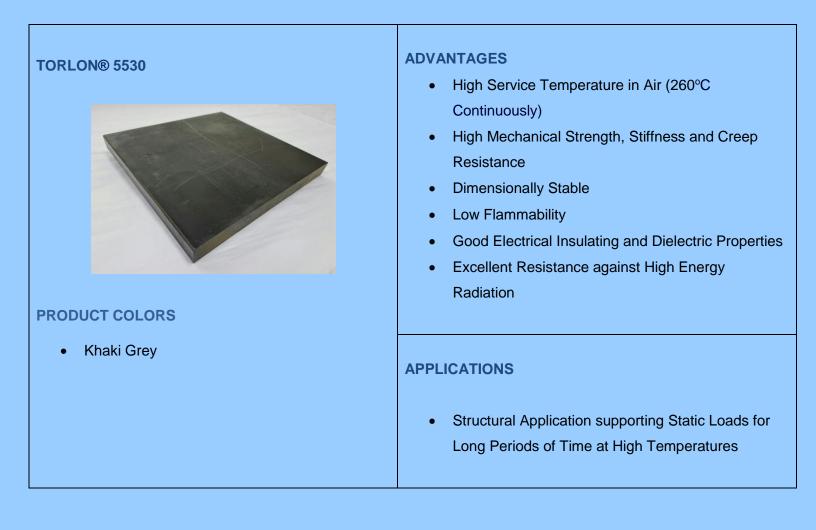
TORLON® 5530

Manufactured by

MITSUBISHI CHEMICAL ADVANCED MATERIALS

PRODUCT OVERVIEW

TORLON® 5530 is a compression molded plastic, it comprises of a 30% glass reinforced grade that produces high levels of strength, stiffness and creep resistance. TORLON® 5530 is suitable for structural applications that requires to support static loads for extended periods of time under high temperature conditions. In addition, TORLON® 5530 is able to offer excellent dimensional stability up to a temperature of 480 °F/ 250°C. Applications include, electronics and semiconductor industries that handles precision parts.



TYPICAL PROPERTIES OF TORLON® 5530

GENERAL PROPERTIES	ASTM or UL TEST	TORLON® 5530 Typical Values
PHYSICAL		
Specific Gravity	D792	1.61
Water Absorption, 24 hrs (%)	D570	0.3
MECHANICAL		
Tensile Strength (psi)	D638	11,500
Tensile Modulus (psi)	D638	900,000
Tensile Elongation at Break (%)	D638	3
Flexural Strength (psi)	D790	20,000
Flexural Modulus (psi)	D790	900,000
Compressive Strength (psi)	D695	27,000
Hardness, Rockwell (M)	D785	125
IZOD Notched Impact (ft-Ib/in)	D256	0.7
THERMAL		
Coefficient of Thermal Expansion (x10 ⁻⁵ in./in./°F)	E831	2.6
Heat Deflection Temperature, (°F/ °C) @ 264 psi	D648	520/280
Glass Transition Temperature (°F/ °C)	DMA	527/280
Max Operating Temperature (°F/ °C)	-	500/250
Thermal Conductivity (BTU-in/ft ² -hr- °F)	-	2.5
Flammability Rating (UL94)	-	V-0
ELECTRICAL		
Electric Strength (V/mil)	D149	700
Dielectric Constant at 1 MHz	D150	6.3
Dissipation Factor at 1 MHz	D150	0.05
Surface Resistivity (ohm/sq)	ANSI/ ESD STM 11-11	10 ¹³
Volume Resistivity (ohm-cm)	IEC 60093	-

AS PLATE PVC ESEP30

Manufactured by



MITSUBISHI CHEMICAL INFRATEC CO., LTD

PRODUCT OVERVIEW

AS PLATE PVC ESEP30 is a static-dissipative anti-static plastic material. It is used with products where its surfaces require to be reduced to avoid an accumulation of static-electricity. Static-electricity charges can cause damages to the product. **AS PLATE PVC ESEP30** are commonly used in the Semiconductor or Electronic manufacturing industries.



TYPICAL PROPERTIES OF AS PLATE PVC ESEP30

GENERAL PROPERTIES	ASTM or UL TEST	AS PLATE PVC ESEP30 Typical Values
PHYSICAL		
Specific Gravity	JIS K 7112	-
Water Absorption, 24 hrs (%)	JIS K 7209	0.02
MECHANICAL		
Pencil Hardness	JIS K 7202	F
Tensile Yield Strength (MPa)	JIS K 7161-2	72
Tensile Modulus (MPa)	JIS K 7161-2	3,150
Flexural Strength (MPa)	JIS K 7171	99
Flexural Modulus (MPa)	JIS K 7171	3,260
Charpy Impact Strength (KJ/m ²)	JIS K 7111-1	1.2
THERMAL		
Linear Thermal Expansion Coefficient (x10 ⁻⁵ 1/°C)	JIS K 7197	7
Heat Deflection Temperature, (°F/ °C)	JIS 7191-2	138/59
Thermal Conductivity (w/m.K)	ASTM C177	0.17
Flammability Rating (UL94)	-	-
ELECTRICAL		
Surface Resistivity (ohm/sq)	JIS K 6911	10 ⁷
Total Light Transmittance (%) (5mm)	JIS K 7361-1	68
Dielectric Constant (10 ³ Hz)	JIS K 6911	-

SOCKET SET SWIVEL PAD CLAMPS



Vlier Products' history of success can be tied to the precision engineering of each of the over 3,300 standard parts offered in our extensive catalog. In addition to meeting demands on time and on budget, Vlier holds ISO:9001 and AS9100 certifications, internationally recognized Quality Management Systems that hold the company to first-rate quality standards and give assurance to customers of this quality.

SOCKET SET SWIVEL PAD CLAMPS

- Design is made flat-tipped
- Pad swivels 7.5° off centreline in all directions
- Large, Flat Pad Face ensures the clamp is secured tightly
- Conical Seat spreads uniformed pressure in clamping
- Steel Model has a black oxide finish
- Model coated with Stainless Steel to protect against rust
- Made of Heat-treated Steel Alloy for longer shelf life
- Pad is designed to pass through tapped hole
- Pad is made of Delrin® or Steel

SOCKET SET SWIVEL PAD CLAMPS are

commonly used to provide highest levels of support and rigidity. This can be used in areas with small spaces and able is to securely hold onto parts that has off-angle surfaces without causing any damage to the surface.

SOCKET SET SWIVEL PAD CLAMPS are

available in two types, one is in stainless steel is and the other is steel with black oxide finish. Both types come with an optional pad that is made of Delrin® material which will remove any surface damage when soft materials are clamped together. In addition, it will also reduce distortion to the soft materials.

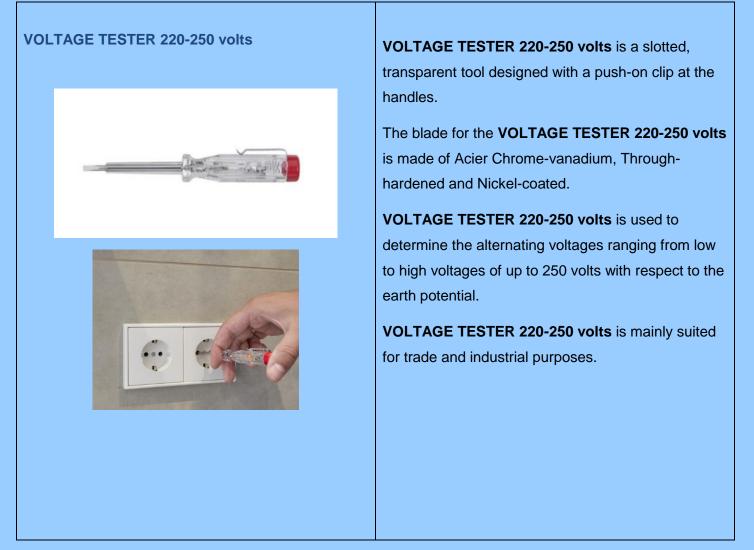
SOCKET SET SWIVEL PAD CLAMPS are used in manufacturing applications that involves grinding, cutting and machining. The clamps will be able to secure surfaces that are uneven, round and angled.

SOCKET SET SWIVEL PAD CLAMPS is designed to provide a uniformed distribution of clamping pressures that will prevent damage to the work job part and the surface of the clamp itself.

VOLTAGE TESTER 220-250 volts

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.



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® LSG CC PEEK, SEMITRON® ESD 420, CL-5-LP L PINS (CarrLane) & FLASHLIGHT WITH LED, LASER AND UV LIGHT(wiha). Stay tuned!