



## *Press release*

### ***ENSINGER makes its mark with more new products than ever***

Engineering plastics manufacturer and distributor, ENSINGER presented a whole series of new products at K-2004 in Dusseldorf from 20<sup>th</sup> to 27<sup>th</sup> October.

#### **TECAPRO MT – Dimensionally stable and lightweight**

Sterilisation containers, eg. for surgical equipment, require good dimensional stability even after many sterilisation cycles. TECAPRO MT can withstand higher temperatures than standard polypropylene thanks to a special form of stabilisation. Compared to PTFE, which has been used until now, TECAPRO MT has a considerably lower density, which distinctly reduces component weight. The standard colour is white, but the material can also be produced in other colours if the customer wishes.

TECAPRO MT has outstanding resistance to detergents and disinfectants and can withstand frequently repeated steam sterilisation.

Proof was established in an extensive series of tests under conditions operating in normal practice. Even after 300 cycles of cleaning and hot steam sterilisation, TECAPRO MT retains its typical properties.

The material is suitable for applications requiring high dimensional stability.

TECAPRO MT can be easily machined thanks to a special additive formulation, and laser inscriptions are possible.

This product conforms to FDA 21 CFR 177.1520 which is a prerequisite for applications in medical technology and foodstuffs area.

#### **TECATRON PPS – Material cost savings**

##### **Corrosion protection under the severest of conditions**

Materials are required in chemical process engineering which offer good protection against corrosion at high temperatures. In particular, pipes and tanks have to be fitted out in this way. TECATRON PPS films and foil-clad laminates, TECATRON PPS LAM, were developed for this use. These sheets and films are versatile in use and chemically inert, inherently flame resistant and demonstrate good thermal characteristics. For this reason, they are also an excellent choice for replacing

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#### **Additional information:**

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fluoropolymers, which means a material cost saving for the processor.

TECATRON PPS has excellent thermal stability, outstanding mechanical properties and a low density. It has high chemical resistance and low permeation. The sheets and films can be worked easily: Glass-fibre reinforcement and impact modification are possible.

The plastics processor has an easily formable crystalline semi-finished product with an exceptionally high melting point, which allows processing at temperatures between 288 and 315 °C. Furthermore, in many cases the sheets and films, which are mechanically and manually weldable, can be tailor-made to the specific needs of the customer.

TECATRON PPS semi-finished shapes have, in the meantime, successfully completed practical tests, with deep-draw moulders amongst others. The sheets or films (up to 122 cm width) are available in thicknesses between 0.25 and 6.4 millimetres and as laminates with a thickness of 3 mm. In addition, a welding wire of 3.5 mm dia is available for manual welding.

## **TECAFORM SAN and TECAPRO SAN**

### **Safety for medicine and foodstuffs**

Acetal and polypropylene containing an anti-microbial additive provide additional safety in medical technology and foodstuffs processing.

TECAFORM SAN and TECAPRO SAN achieve their anti-microbial effect through the release of silver ions and offer the following advantages:

They have anti-microbial activity against gram-positive and gram-negative organisms.

They act by physically destroying the cells, so that no resistance arises as often happens with organic active substances.

The active substance is homogeneously distributed in the plastic, so that the effect is also ensured regardless of abrasion. The active substance does not diminish in any way and a continuous effect can therefore be ensured.

There are no discolouration effects through topical release of the ions.

## **TECAMID 6 VF**

### **Polyamide for deep-drawn moulding applications**

Up to now the deep-drawing of partially crystalline materials has mostly been a problem. Thanks to the development of special types of raw material, we are able to offer a polyamide 6 in the form of TECAMID 6 VF which is outstandingly suited for deep-drawing applications.

The material is used in mechanical engineering applications and in particular the automotive field; in the latter case especially in the engine compartment.

TECAMID 6 VF excels with good toughness and high strength due to glass fibre reinforcement. Temperature stability in continuous use is ensured up to 140 °C. The material is very resistant to oils, greases and solvents.

## **TECAMID 6 FR T**

### **Flame retardancy for different means of transportation**

Fire and flame protection is an important subject in transport. The non-halogenated flame retardant polyamide TECAMID 6 FR T was developed especially for this use. This new material can be used in trains, buses, on ships, in fact everywhere in such means of transportation where there is a requirement for the use of a flame-inhibiting material which offers stability at the same time.

The material excels through good strength and rigidity and minimal smoke emission in case of fire. It fulfils the requirements for preventive fire protection in rolling stock according to DIN 5510-2.

Excellent results were demonstrated in various classification testing series (flammability class S-4, smoke emission class SR-2, dripability class ST-2).

TECAMID 6 FR T can be used cost-effectively for making panels, inner cladding, window strips or armrests in internal areas, as well as for cable and sling clips, covers and sliding plates in wagon junction modules in external areas.

## **TECAPET and TECAPET TF**

### **Optimum cutting operations**

The increased requirements for the machining of precision components place high demands on the processing ability of materials. TECAPET is polyethylene terephthalate which has been optimised for precision machined parts, eg. in the field of semiconductors and in all mechanical engineering applications.

TECAPET TF possesses high abrasion resistance through PTFE modification and is especially suitable for slip - stick applications.

TECAPET is impact resistant with a high degree of hardness and rigidity, has good creep and abrasion strength, extraordinary dimensional stability and good electrical insulation. The material is resistant to chemicals, has a low tendency to pick up contamination and has good radiation stability.



*Instrument container made from TECAPRO SAN*



*TECAMID 6 FR T stock shapes*



*TECATRON PPS*