

TECAFORM® UD Blue

HYDEX® 4101 UD Blue

TECAPEEK® UD Blue

## Semi-Finished Detectable Products

**CURBELL**  
PLASTICS

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Curbell Plastics is a proud supplier of Ensinger materials.

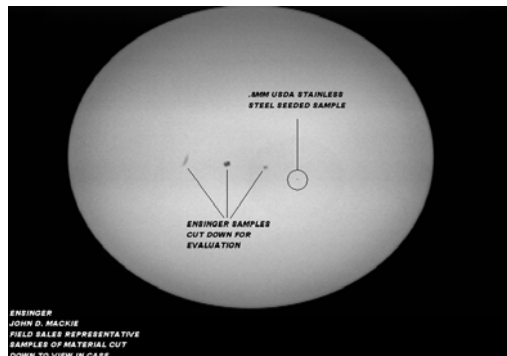
Blue coloration of the UD family makes materials visible to optical detectors\*



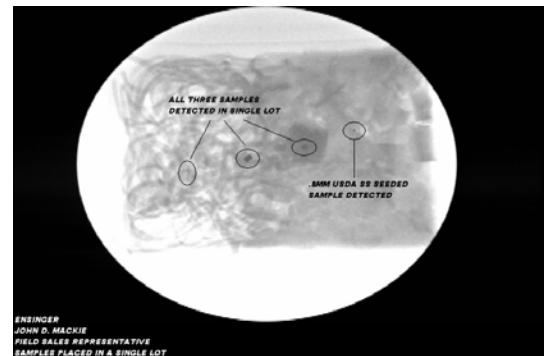
Special filler technology offers reliable visibility to metal detection systems down to 4mm particle size\*

Detectable Material	% Detected by Partical Size					
	2mm	3mm	4mm	5mm	6mm	7mm
TECAPEEK UD blue	30	85	100	100	100	100
TECAFORM AH UD blue	10.8	82.3	100	100	100	100
HYDEX 4101 UD blue	2.5	99.5	100	100	100	100
Competitor B POM nat	4.5	7	82	100	100	100
Competitor B POM blue	1.3	14.2	96.7	100	100	100
Competitor A UHMW	0	3.3	69.4	100	100	100
Competitor A POM blue	0	0	8.6	90.9	100	100

Proprietary additives create X-ray opacity down to 2mm particle size\*



Enginger Sample particles, no product



Enginger Sample particles in product

\*Particle size detection may vary depending on line speed, detection settings and food substrate. For testing purposes, line speeds of 150 FPM were used

## **Three methods of detection with one product**

*Ensinger's extensive experience with food industry applications has shown us that there are typically three methods of quality control in the plants to keep the food product free from foreign particulates; optical, metal and x-ray detection. Our industry has developed separate solutions in plastics for each of these scanning scenarios. Ensinger's Ultra Detectable family of products offers the ability to address all three methods with one product, while maintaining the physical property and chemical resistance profile inherent to engineering thermoplastics.*

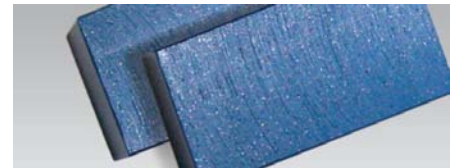


### **TECAFORM AH UD Blue**

This acetal copolymer is porosity free and was the first engineering thermoplastic that was designed to be detected regardless of the scanning method used. TECAFORM AH has been a reliable design material in the food industry for years. TECAFORM AH UD Blue offers that same reliability along with additional assurance of food product safety from inadvertent particulates, all for a very low cost to value ratio.

### **HYDEX 4101 UD Blue**

Next in the UD family of products, HYDEX 4101 UD Blue offers all the same advantages of Ultra Detection along with the additional physical property, wear and resistance to cleaning chemicals associated with polyesters. Good resistance to chlorine and caustics.



### **TECAPEEK UD Blue**

The highest temperature and chemical resistance capability of all the Ultra Detectable products. With a Heat Deflection Temperature over 300°F, and excellent resistance to a wide range of cleaning chemicals, TECAPEEK UD blue offers engineers piece of mind regardless of the severity of the environment.