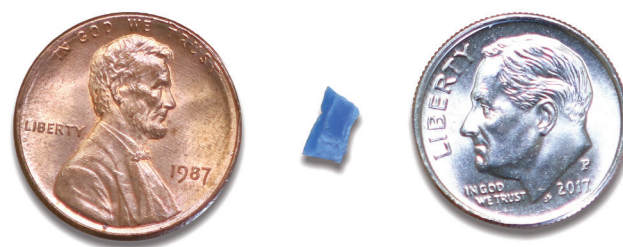
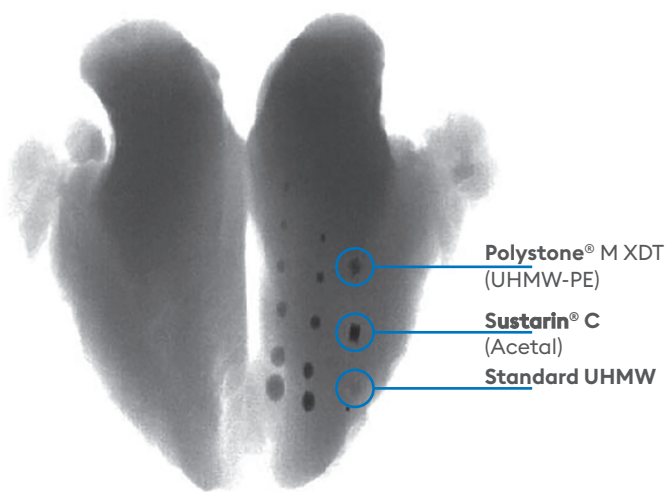


Metal & X-ray Detectable Plastics

Innovations for the food processing industry!

Röchling Industrial North America is proud to offer detectable plastics in **Polystone® M** (UHMW-PE), **Sustarin® C** (Acetal), and **SustaPEEK** machinable stock shapes. These materials are specifically manufactured to be visible to X-ray and metal inspection technology. Food processing, medical, and packaging companies can now comply with FDA and industry specific regulations.



The materials can be detected in sizes as small as 3 mm³, allowing for focus on prevention of contamination.

Image of an X-rayed chicken breast

Note: It is the responsibility of the user to test and approve the detection of this product due to variations in metal detection and X-ray detection systems and required sensitivity settings. Röchling's XDT product line has been proven to be detectable with a particle size as small as a 3 mm cube at speeds up to 250 feet per minute.

	Polystone® M (UHMW-PE)	Sustarin® C (Acetal)	SustaPEEK (PEEK)
Metal Detectable	•	•	–
X-ray Detectable	•	•	•

MDT & XDT Applications

- | | | | |
|---|---|--|--|
| <ul style="list-style-type: none"> • Scraper blades • Mixer components • Rollers | <ul style="list-style-type: none"> • Wear-strips • Bushings • Bearings | <ul style="list-style-type: none"> • Guides • Sprockets • Agitators | <ul style="list-style-type: none"> • Gears • Pharmaceutical packaging • Pillow blocks |
|---|---|--|--|

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Metal & X-ray Detection Equivalence Charts

Polystone® M MDT (UHMW-PE) & Sustarin® C MDT (Acetal)

Stainless Steel (Sphere mm)	Polystone® M MDT (Cubed mm)	Stainless Steel (Sphere mm)	Sustarin® C MDT (Cubed mm)
0.80	2.33	1.00	2.45
1.00	2.66	1.10	2.80
1.10	3.00	1.20	3.15
1.20	3.33	1.50	3.50
1.50	4.00	1.58	4.20
1.60	4.33	1.90	4.55
1.80	5.00	2.20	5.25
2.00	5.33	2.40	5.60

Polystone® M XDT (UHMW-PE) & Sustarin® C XDT (Acetal)

Stainless Steel (Sphere mm)	Polystone® M XDT (Cubed mm)	Stainless Steel (Sphere mm)	Sustarin® C XDT (Cubed mm)
0.60	2.40	0.60	0.83
0.70	2.80	0.70	0.96
0.80	3.20	0.80	1.10
0.90	3.60	0.90	1.24
1.00	4.00	1.00	1.38
1.10	4.40	1.10	1.51
1.20	4.80	1.20	1.65
1.50	6.00	1.50	2.06

Note: This test was designed and conducted by Mettler Toledo to provide an estimate for the size of **Sustarin® C MDT** or **Polystone® M MDT** that could be detected in any food source using Safeline Metal or X-ray Detectors.

When the Stainless Steel standard detection size is known, it is reasonable to expect the corresponding equivalent conductive material of **Sustarin® C MDT** or **Polystone® M MDT** can also be detected in the same product environment.

Röchling detectable materials are suggested for use in production of the following products:

- Frozen and prepared foods
- Baby food
- Soup and chili
- Snack foods
- Chips and tortillas
- Cereals
- Cheese
- Candies and chocolates
- Pastries
- Pet food

