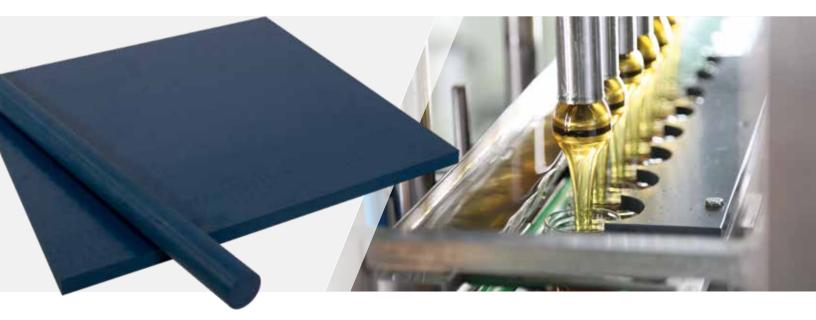


Ketron® MD PEEK

Globally Compliant & Multi-Detectable Thermoplastic Material

Ketron® MD PEEK is a multi-detectable polyetheretherketone thermoplastic polymer developed for extreme environments within the Food Processing Industry. It offers extreme dimensional stability, high strength, and high temperature resistance.



Competitive Advantage

Ketron® MD improves the contamination detectability process in foodstuffs with superior detectability while also enhancing efficiency, safety, MTBR and product integrity by eliminating expensive recalls.

Detectability



Visual



Metal



X-Ray

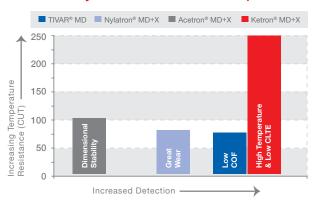
Key Benefits

- Impact resistant
 - Charpy notched (at least 3.0 kJ/m2)
- An ideal choice for elevated temperature applications with a continuous use temperature up to 482°F (250°C)
- Low CLTE of 45 x10⁻⁶- m/(m.K) below 100°C
- Heat Deflection Temperature of 150°C at 1.8MPa
- Food contact safe: FDA, full REACH & EU 10/2011 compliant

Compliance Properties for Food Processing



Metal & X-Ray Detection & Thermal Properties



* DISCLAIMER: Must be tested in actual environment with actual machines

Common Applications

- Pistons
- Manifolds
- Valves
- Extrusion dies for dough / meat application
- · Hot oil / oven applications
- · High heat mixing vessels
 - · Cereal (pelletizers)
 - · Candy (liquifier)
 - · Baby food
 - Cooked food processing (mixers, and process vessels)

Availability

Rod(s)

· 30mm – 120mm diameter

Standard Stock

• 25, 50, 100 x 3000mm

Plate

• 10mm - 150mm thick

Standard Stock

• 25, 50mm x 615 x 3000mm

Other MD Family Materials

- TIVAR® MD UHMW-PE
- Nylatron® MD PA6
- · Acetron® MD POM-C



Comparison of Critical Properties for Food Processing

Properties	ISO Test Method	ASTM Test Method	TIVAR® MD	Nylatron [®] MD	Acetron® MD	Ketron [®] MD
Density (Specific Gravity)	ISO 11- 83-1	ASTM D792	1.01 g/cm (0.954)	1.21 g/cm (1.25)	1.46 g/cm (1.47)	1.44 g/cm (1.45)
CLTE, Average Value Between 23°C (73°F) and 100°C (212°F)	-	ASTM E831	200 x 10 ⁻⁶ (110 μin/in-°F)	100 x 10 ⁻⁶ (50 µin/in-°F)	130 x 10 ⁻⁶ (71 μin/in-°F)	45 x 10 ⁻⁶ (25 μin/in-°F)
HDT at 1.8 MPa (264 psi)	ISO 75	ASTM D648	42°C (116°F)	85°C (200°F)	100°C (280°F)	Not Tested (320°F)
CUT (20,000 hrs)	-	-	80°C (176°F)	85°C (185°F)	105°C (221°F)	250°C (482°F)
Relative Cost	-	-	€ € € (\$ \$ \$)	€ € € € (\$ \$ \$ \$)	€ € € € (\$ \$ \$ \$)	€€€€€ (\$\$\$\$\$)

^{*} Tested under free fall conditions, vertical ring Metal Detector

- Strong Advantage

Best in Class

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