

# Extruded Material Comparison Chart

	Kent Elastomer Products, Inc. Materials Offered			
	TPR	TPE	PVC	Silicone
Classification	FDA & NSF Grades available	FDA & USP class VI grades available.	FDA & USP class VI & NSF grades available.	Meets FDA & USP Class VI standards.
Advantages	A soft, colorable, specialty thermoplastic. It complies with NSF 61 for plumbing applications in contact with potable water and NSF 51 for food processing equipment. It is polyolefin based and completely recyclable.	TPE's in medical devices offer numerous choices for effective, safe medical device functionalities. The growing trend to eliminate natural rubber & PVC due to expanding government regulations make TPE a wise and prudent choice for new and existing applications.	Our Vinyl Food Grade Tubing is designed for laboratory, food, and medical applications. A wide range of compounds provides excellent surface quality and physical properties essential for most applications.	Excellent biocompatibility. No leachable additives or plasticizers. Fungus-resistant. Good over a wide temperature range. Minimal tendency to take a set.
Physical Properties	Good Colorability, Fatigue Resistance, Good Chemical Resistance, Dimensional stability, Heat Aging Resistance, Low Compression Set, Low Temperature Flexibility, Ozone resistance, Recyclable Material.	Low levels of extractables, excellent sealing and adhesion performance, soft & flexible, latex like in feel and elongation, dimensional stability, good chemical resistance, ease of sterilization, good weather resistance, recyclable.	Water clear, Phthalate (DEHP) free available, self-extinguishing, excellent corrosion and weather resistance, impact resistant, safety and chemical stability and biocompatibility, chemical resistant and low cost, ease of sterilization.	Thermoset rubber. Good compression set. Soft, flexible materials. Translucent or clear.
<b>Chemical Resistance</b>				
Hydrocarbons	Fair	Poor	Poor	Fair
Acids	Excellent	Good	Fair	Fair
Bases	Excellent	Good	Good	Fair
Sea Water	Excellent	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent	Excellent
Temperature Range	-60 to 275°F	-50 to 210°F	-30 to 200°F	-58 to 446°F
Typical Pricing	\$\$\$\$	\$\$\$	\$\$	\$\$\$\$\$\$

\* The buyer must perform all tests necessary to confirm whether the product and its performance and qualities are suitable for the intended application. Final determination of fitness of the product for the intended application is the buyer's responsibility. Kent Elastomer Products, Inc., shall not be liable for any misuse or misapplication of its products.