

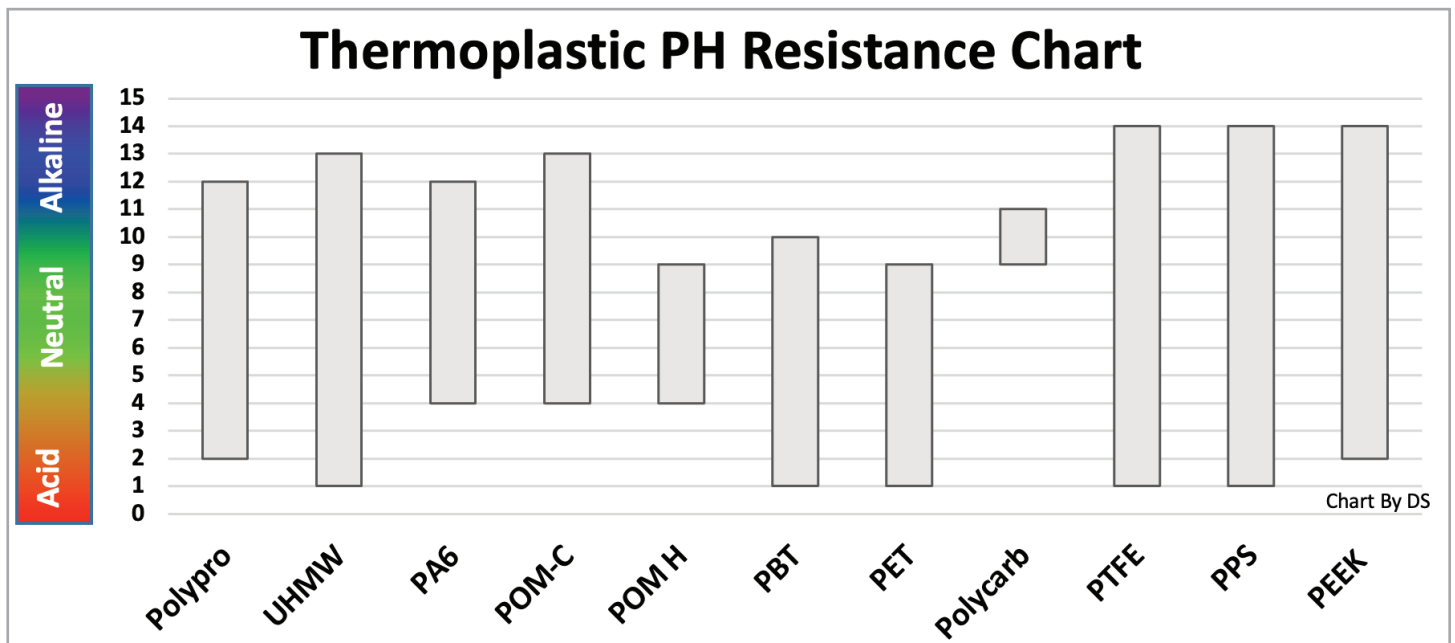


PORT PLASTICS

# FOOD GRADE THERMOPLASTIC PH RESISTANCE

Designing components using **food-grade compliant thermoplastics** provides better corrosion resistance over metals with the added benefit of lightweight and excellent sliding properties. However, not all plastics are created equal, so it is crucial to understand how plastics can also be affected when **exposed to aggressive chemistries** or foods with varying PH levels.

The chart below looks at some of the common thermoplastic materials used on **food automation equipment**. This gives a general guideline for their performance when exposed to aggressive and corrosive sanitizing chemicals.



While some of these materials have similar resistance to chemicals, additional factors must be considered when choosing compatible materials. The concentration of chemistry, frequency of exposure, surface finish, pressure, and temperature factor into the part's overall performance and life.

Many customers that replace metal parts with engineered plastics often note a number of positive benefits even if the initial part costs more.

- REDUCED SURFACE DEGRADATION AND PITTING · REDUCED MAINTENANCE · REDUCED DOWNTIME
- REDUCED PART FAILURE · LONGER LASTING PARTS · OVERALL COST SAVINGS

FOOD OEMS & PROCESSORS DESIRE CONSUMABLE COMPONENTS RESISTANT TO VARIOUS CHEMICAL WASHDOWNS. PORTS PLASTICS UNDERSTANDS THAT THE RISK OF COMPONENT FAILURE INCREASES WITH TIME. WE OFFER A COMPLETE PORTFOLIO OF FOOD GRADE PERFORMANCE PLASTICS. [www.PortPlastics.com](http://www.PortPlastics.com)