Tech Note MO-102

sales@ecosensors.com
www.ecosensors.com

OZONE RESISTANCE CHART

Ratings: A = No effect, B = Minor effect, C = Moderate effect, D = Severe effect

Plastics	Rating	Comments
ABS	B	
Acetal (Delrin®)	C	
CPVC	A	
Epoxy	B	
Hytrel	C	
Polyethylene, High Density (HDPE)	B	
Polyethylene, Low Density (LDPE)	C	
Nylon	D	
Polycarbonate (Lexan®)	A	
Polypropylene	B	
Polysulfone	A	
PVC, flexible	B	Trial recommended (many grades). Clear turns yellow.
PVC, Rigid	A	OK at room temperature.
Kynar® (PFDF)	A	
Teflon® (PTFE)	A	
Tygon®	B	Turns yellow.
Elastomers		
Buna-N (Nitrile)	D	Widely used in plumbing fixtures.
EPDM	A	
Hypalon®	A	
Natural Rubber	D	
Neoprene	C	
Norprene®	A	Recommended as flexible tubing for low ppm.
PCTFE	A	
Santoprene®	D	
Silicone	A	Offgases. Should not be used near sensors.
Viton®A	A	
Metals		
Aluminum	D	
Brass	C	Bad chemical reaction.
Bronze	B	
Chrome Plating	A	
Copper	C	
Hastelloy®-C	A	
Iron and general steels	D	
Nickel Plating	C	Decomposes in the presence of water
Stainless steel 304	B	
Stainless steel 316	A	
Titanium	A	

Source: Cole-Parmer catalog, Harrington catalog, Ozone Science & Engineering and other sources. Ratings and comments are believed to be accurate, but have not been confirmed in our laboratory. You should try samples of material in ozone in your typical application to confirm suitability.