Chemical Compatibility of PVC Tubing

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Key to Ratings

A	**No Effect—**Excellent chemical resistance. No performance degradation.
B	**Moderate Effect—**Some chemical resistance. Some performance degradation. Shortening of product life.
C	**Not Recommended—**Questionable resistance. Do not use.
D	**Information Not Available—**No information available for this item.

Key to Exceptions

1	1-10% concentration
2	10-35% concentration
3	Up to 50% concentration
4	Rating @ 122° F
5	Rating @ 140° F
6	Rating @ 150° F
7	Rating @ 180° F
8	Dry only
9	Hydrocarbon-based fluid
10	Petroleum-based fluid
11	Phosphate-ester-based fluid

		Acetic Acid (10% in Water)	Acetic Acid (30% in Water)	Acetone	Biodiesel	Chlorine	Deionized Water	Diesel Fuel	Ethylene Glycol	Fuel Oil	Gasoline	Hydraulic Fluid	Hydrochloric Acid (10% in Water)	Hydrochloric Acid (30% in Water)	Hydrogen Peroxide (10% in Water)	Hydrogen Peroxide (30% in Water)	Isopropyl Alcohol
8354K	Antibacterial Gray PVC Tubing	A	A	C	C	C	A	C	A	B	C	C	A	A	A	B	B
50285K	Antistatic Clear PVC Tubing	A	A	C	D	C	A	B	A	A	A	B	A	A	A	A	A
5231K	Chemical-Resistant Clear PVC Tubing	A	B	C	D	B[1]	A	C	B	C	C	C	A	B	A	B	B
55525K	Chemical-Resistant Clear PVC Tubing	A	B	C	D	B[1]	A	C	B	C	C	C	A	B	A	B	B
51825K	Chemical-Resistant Clear PVC Tubing	A	B	C	D	B[1]	A	C	B	C	C	C	A	B	A	B	B
5103K	Chemical-Resistant Clear Tygon Tubing	A	A	B	C	B	A	C	A	C	C	C	A	A	A	A	A
5187K	Fuel and Lubricant Yellow PVC Tubing	A	B	C	D	B[1]	A	A	B	A	A	B[10]	A	B	A	B	B
5552K	Fuel and Lubricant Yellow Tygon PVC Tubing	A	A	C	B	A	A	A	A	A	A	A[11]	A	C	A	C	A
53945K	Hard-Wall Rigid Clear PVC Tubing	A	A	C	A	C	A	A	A	A	B	A	A	B	A	A	D
55485K	High-Flex Clear Tygon PVC Tubing	A	B	C	C	B	A	C	A	C	C	C	A	A	A	A	C
5894K	High-Flex Clear Tygon PVC Tubing	A	B	C	C	C	A	C	A	C	C	C	A	B	A	A	C
5229K	High-Flex White PVC Tubing	A	A	C	D	C	A	A	A	A	B	A	A	B	A	A	D

(More chemicals on following page)

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		Kerosene	Lacquer Solvents	Methanol (Methyl Alcohol)	Methyl Ethyl Ketone (MEK)	Mineral Oil	Nitric Acid	Phosphoric Acid (25% in Water)	Phosphoric Acid (85% in Water)	Sodium Hydroxide (10% in Water)	Sodium Hydroxide (30% in Water)	Sodium Hypo-chlorite (Bleach)	Sulfuric Acid (10% in Water)	Sulfuric Acid (30% in Water)	Synthetic Oil	Vegetable Oil
8354K	Antibacterial Gray PVC Tubing	C	C	C	C	B	C	A	A	A	A	A	A	A	D	B
50285K	Antistatic Clear PVC Tubing	D	C	C	C	A	A[3]	A	A	A	A	A	A	A	B	A
5231K	Chemical-Resistant Clear PVC Tubing	C	C	B	C	C	A[1]	B	A	A	B	A	A	B	C	D
55525K	Chemical-Resistant Clear PVC Tubing	C	C	B	C	C	A[1]	B	A	A	B	A	A	B	C	D
51825K	Chemical-Resistant Clear PVC Tubing	C	C	B	C	C	A[1]	B	A	A	B	A	A	B	C	D
5103K	Chemical-Resistant Clear Tygon Tubing	C	C	A	B	C	A[2]	A	A	A	A	A	A	A	C	B
5187K	Fuel and Lubricant Yellow PVC Tubing	B	C	B	C	B	A[1]	B	A	A	B	A	A	B	D	D
5552K	Fuel and Lubricant Yellow Tygon PVC Tubing	A	C	B	C	A	C	A	C	C	C	A[1]	A	B	A[9]	A
53945K	Hard-Wall Rigid Clear PVC Tubing	A	C	A	C	A	C	A	A	A	A	A	A	A	D	A
55485K	High-Flex Clear Tygon PVC Tubing	C	C	C	C	B	D	A	A	A	B	A[1]	A	A	B[9]	C
5894K	High-Flex Clear Tygon PVC Tubing	C	C	C	C	C	D	A	A	C	C	A[1]	A	A	C	C
5229K	High-Flex White PVC Tubing	D	C	A	C	D	B	B	B	A	A	B	A	A	A	D

(See pages 3 and 4 for the chemical compatibility of more PVC tubing)

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9449K	High-Purity White Tygon Tubing	A	A	B	C	B	A	C	A	C	C	C	A	A	A	A	A
5006K	High-Strength Clear PVC Tubing	B[6]	C	C	D	B	D	B	A[5]	B[4]	C	D	A[6]	B[7]	D	D	B[4]
5554K	Laboratory Clear Tygon PVC Tubing	A	A	C	C	A[8]	A	C	A	C	C	C	A	A	A	A	C
55505K	Laboratory Clear Tygon PVC Tubing	A	A	C	C	A[8]	A	C	A	C	C	C	A	A	A	A	C
5347K	Laboratory Clear Tygon PVC Tubing	A	A	C	C	A[8]	A	C	A	C	C	C	A	A	A	A	C
5466K	Smooth-Bore High-Purity Clear Tygon Tubing	A	A	B	C	B	A	C	A	C	C	C	A	A	A	A	A
5624K	Smooth-Bore High-Purity Clear Tygon Tubing	A	A	B	C	B	A	C	A	C	C	C	A	A	A	A	A
5046K	Ultra-Chemical-Resistant Clear Tygon PVC Tubing	A	A	A	A	A	A	A	A	A	A	A[11]	A	A	A	A	A
8339K	Ultra-Clear Tygon PVC Tubing	A	B	C	C	A[8]	A	C	A	C	C	B[11]	A	A	A	A	C
5231K	UV-Resistant Black PVC Tubing	A	B	C	D	B[1]	A	C	B	C	C	C	A	B	A	B	B
5255K	UV-Resistant Black Tygon PVC Tubing	A	A	C	C	A	A	C	A	C	C	B[11]	A	A	A	A	C
1487T	UV-Resistant Clear PVC Tubing	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

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9449K	High-Purity White Tygon Tubing	D	C	A	B	D	A[2]	A	A	A	A	A	A	A	C	B
5006K	High-Strength Clear PVC Tubing	C	C	C	C	A	C	D	B[6]	B[6]	D	B[7]	D	D	D	C
5554K	Laboratory Clear Tygon PVC Tubing	D	C	C	C	D	D	A	A	A	B	A[1]	A	A	B[9]	C
55505K	Laboratory Clear Tygon PVC Tubing	D	C	C	C	D	D	A	A	A	B	A[1]	A	A	B[9]	C
5347K	Laboratory Clear Tygon PVC Tubing	D	C	C	C	D	D	A	A	A	B	A[1]	A	A	C	C
5466K	Smooth-Bore High-Purity Clear Tygon Tubing	C	C	A	B	C	A[3]	A	A	A	A	A	A	A	C	B
5624K	Smooth-Bore High-Purity Clear Tygon Tubing	C	C	A	B	C	A[3]	A	A	A	A	A	A	A	C	B
5046K	Ultra-Chemical-Resistant Clear Tygon PVC Tubing	D	A	A	A	D	D	A	A	A	A	A[1]	A	A	A[9]	A
8339K	Ultra-Clear Tygon PVC Tubing	D	C	C	C	D	A[2]	A	A	A	A	A[1]	A	A	B[9]	B
5231K	UV-Resistant Black PVC Tubing	C	C	B	C	C	A[1]	B	B	A	B	A	A	B	C	D
5255K	UV-Resistant Black Tygon PVC Tubing	C	C	C	C	A	D	A	A	A	C	A[1]	A	A	A[9]	B
1487T	UV-Resistant Clear PVC Tubing	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D