ALTAFLUOR 350®

THV FLEX (tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride) has a unique combination of properties making it the preferred choice for many applications. THV is ideal for use in applications requiring excellent UV light transmission combined with the safety and flexibility of plastic. THV FLEX grade has the flexibility of traditional PVC flex tubing combined with chemical resistance much closer to that of FEP. THV is available in a variety of compositions each designed for specific performance values. ALTAFLUOR 300 Series uses THV FLEX grade which allows for greatest flexibility, permeation resistance and good chemical resistance, but with slightly reduced upper service temperature over other grades. ALTAFLUOR 350 also has excellent bondability with other materials which allows for multi-layer extrusions. For more product specific information please contact your ALTAFLO representative.

ALTAFLUOR 350® Features:

- 100% virgin grade THV FLEX grade
- Highest UV & visible light transmission of any fluoropolymer
- Most flexible fluoropolymer
- Good chemical resistance
- Superior weatherability
- Excellent bondability
- Excellent ozone resistance
- Extremely low permeation

Applications

- Automotive fuel transport systems*
- Laboratory
- Solar energy
- UV purification systems
- Fiber optic
- Chemical process

* Component in multi-layer product

Specifications

Temperature: –40 °F to 212 °F

Flammability: UL 94 V0 rated. THV FLEX grade resists combustion and does not promote flame spread

ALTAFLUOR 350® – THV FLEX Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
350-0250-030-XX*	3/16	1/4	.004	0.030	.003
350-0250-040-XX*	.170	1/4	.004	0.040	.003
350-0250-062-XX*	1/8	1/4	.005	0.062	.003
350-0375-062-XX*	1/4	3/8	.005	0.062	.003

*Custom item – please consult factory for lead time and minimum order requirements.
Please consult factory for additional sizes & availability.

ALTAFLUOR 350® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
350-0250-030-	0.250	0.030	0.188	1"	223
350-0250-040-	0.250	0.040	0.170	1"	297
350-0250-062-	0.250	0.062	0.125	1/2"	460
350-0375-062-	0.375	0.062	0.250	1"	307

ALTAFLUOR 350® Series THV FLEX – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp. Long Term			180° F
Specific Gravity	D 792		1.95
Tensile Strength	D 638	PSI	2900
Elongation	D		600
Flex Modulus	D 790	PSI	12,000
MIT Flex Life			n/a
Hardness	D 2240	Shore D	44

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.

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Transport Critical Fluid With Confidence℠

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