Xtreme Shell ™ Technical Data Sheet - Shell only



Fire-rated sheet

Andax uses a unique PVC/ABS product in the construction of the Xtreme Shell Pipe Flange Containment System. It meets many industry flammability standards. It is recognized under the component program of Underwriters Laboratories, Inc. with a classification of 94V-1 at 0.058", 94V-0 at 0.085" and 94-5VA at 0.085". It combines very high impact strength with excellent ductility and formability.

Technical Properties

Property	Test Method	Value*	
Specific Gravity (color dependent)	ASTM D-792	1.18-1.25	
Tensile Strength	ASTM D-638	5,000 psi	
Flexural Strength	ASTM D-790	7,800 psi	
Flexural Modulus	ASTM D-790	280,000 psi	
Izod Impact (Notched) 72°F	ASTM D-256	8.0 ft-lbs/in	
Izod Impact (Notched) -40°C	ASTM D-256	1.8 ft-lbs/in	
Rockwell Hardness (R Scale)	ASTM D-785	93	
Heat Deflection Temperature (@ 264 psi - annealed)	ASTM D-648	175°F	
Coefficient of Linear Thermal Expansion	ASTM D-696	4.6 - 5.5x10 ⁻⁵ in/in/°F	
Mold Shrinkage	Internal	0.005 - 0.007 in/in	
Motor Vehicle Safety Standard	FMVSS 302	Passes	
Flammability	UL 94 V-0	Listed @ 0.085"	
Flammability	UL 94-5VA	Listed @ 0.085"	
Radiant Panel (Flame Spread Index)	UL 94	RP50	
Relative Thermal Index (Electrical)	UL 746	85°C at ≥0.086"	
Relative Thermal Index (Mech. w/impact)	UL 746	70°C <u>></u> 0.086"	
Relative Thermal Index (Mech. w/o impact)	UL 746	85°C ≥0.086"	

*All values based on 0.125" unless otherwise stated



Chemical Resistance of ABS/PVC Materials

Chemical	7 Days Immersion at 73°F	Chemical	7 Days Immersion at 73°F
5% Acetic Acid	No Change	Margarine	No Change
Acetone	Attacked	Mayonnaise	No Change
Ammonium Hydroxide	No Change	Methyl Ethyl Ketone	Attacked
10% Ammonium Hydroxide	No Change	Milk	No Change
Beer	No Change	Mustard	No Change
Butter	No Change	Naphtha	No Change
Carbon Tetrachloride	Attacked	70% Nitric Acid	Attacked
Castor Oil	No Change	50% Nitric Acid	Attacked
Catsup	No Change	30% Nitric Acid	Color Change
10% Citric Acid	No Change	10% Nitric Acid	No Change
Clorox Bleach	No Change	Oleic Acid	No Change
Coca Cola	No Change	Orange Juice	No Change
Coffee	No Change	62% Perchloric Acid	No Change
Cottonseed Oil	No Change	50% Perchloric Acid	No Change
Ethyl Alcohol	Attacked	Petroleum Grease	No Change
95% Ethyl Alcohol	Attacked	Petroleum Oil	No Change
50% Ethyl Alcohol	Attacked	5% Phenol	Attacked
Ethylene Dichloride	Attacked	40% Potassium Dichromate	No Change
Ethylene Glycol	No Change	2% Sodium Carbonate	No Change
Fantastik Spray Cleaner	No Change	10% Sodium Chloride	No Change
Grape Jelly	No Change	10% Sodium Hydroxide	No Change
Glycerin	No Change	1% Sodium Hydroxide	No Change
Heptane	Attacked	30% Sulfuric Acid	Slight Attack
10% Hydrochloric Acid	No Change	3% Sulfuric Acid	No Change
50% Hydrofluoric Acid	Attacked	Toluene	Attacked
10% Hydrofluoric Acid	No Change	Tomato Juice	No Change
3% Hydrogen Peroxide	No Change	Trichloroethylene	Attacked
Isopropyl Alcohol	No Change	Vanilla Extract	No Change
Kerosene	Attacked	Vinegar	No Change
Lard	No Change	Water	No Change
Lemon Juice	No Change	Whiskey	No Change

Ratings as given reflect overall observable changes and are given for purposes of general comparison only. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Users are advised to make their own test to determine the safety and suitability of each product for their own purposes.