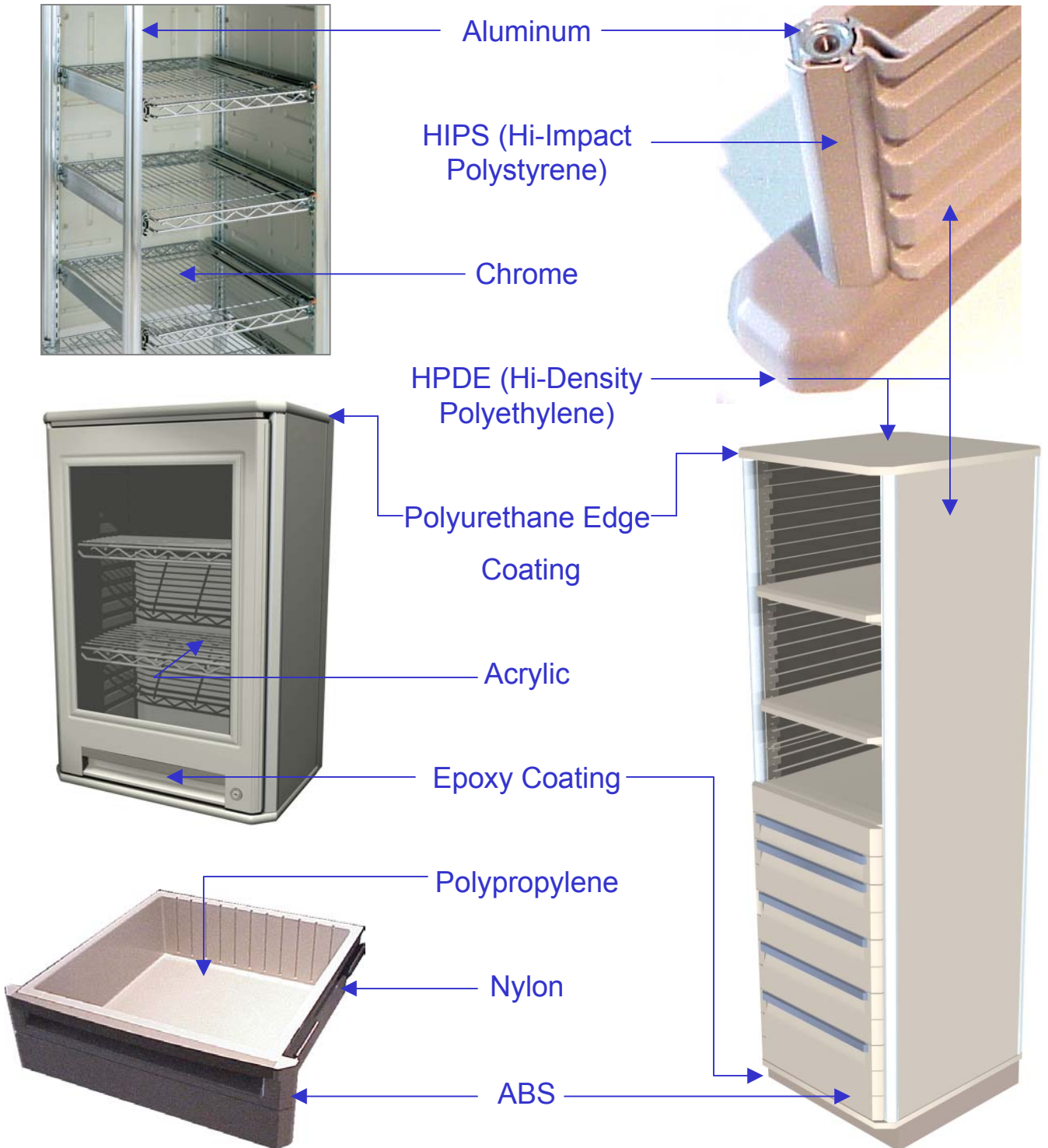


Starsys Chemical Resistance



Chemical Resistance Testing

Testing results reported herein conducted under the specifications of SEFA standards, section 8

Testing Dates June 2003	Sample Description Polyurethane	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	0
Acetone	1
Acid Dichromate (5%)	1
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	0
Carbon Tetrachloride	0
Chloroform	0
Chromic Acid (60%)	1
Cresol	0
Dichloroacetic acid	0
Dimethylformamide	1
Dioxane	1
Ethyl Ether	0
Formaldehyde (37%)	0
Formic Acid (90%)	0
Furfural	2
Gasoline	0
Hydrochloric acid (37%)	1
Hydrofluoric acid (48%)	1

Hydrogen Peroxide (28%)	0
Tincture of Iodine	2
Methyl Ethyl Ketone	0
Methylene Chloride	0
Monochlorobenzene	0
Napthalene	0
Nitric acid (20%)	0
Nitric acid (30%)	0
Nitric acid (70%)	0
Phenol (90%)	1
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	1
Sodium Hydroxide (40%)	2
Sodium Hydroxide (flake)	1
Sodium Sulfide (sat'd.)	1
Sulfuric acid (25%)	0
Sulfuric acid (85%)	0
Sulfuric acid (96%)	1
Sulfuric acid (85%) and Nitric acid (70%), equal parts	1
Toluene	0
Trichloroethylene	0
Xylene	1
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates June 2003	Sample Description Polypropylene	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	0
Acetone	0
Acid Dichromate (5%)	0
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	1
Carbon Tetrachloride	1
Chloroform	0
Chromic Acid (60%)	1
Cresol	1
Dichloroacetic acid	0
Dimethylformamide	0
Dioxane	0
Ethyl Ether	1
Formaldehyde (37%)	0
Formic Acid (90%)	0
Furfural	0
Gasoline	0
Hydrochloric acid (37%)	0
Hydrofluoric acid (48%)	0

Hydrogen Peroxide (28%)	0
Tincture of Iodine	1
Methyl Ethyl Ketone	0
Methylene Chloride	0
Monochlorobenzene	0
Napthalene	0
Nitric acid (20%)	0
Nitric acid (30%)	0
Nitric acid (70%)	1
Phenol (90%)	0
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	0
Sodium Hydroxide (flake)	0
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	0
Sulfuric acid (85%)	0
Sulfuric acid (96%)	0
Sulfuric acid (85%) and Nitric acid (70%), equal parts	1
Toluene	0
Trichloroethylene	0
Xylene	0
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of SEFA standards, section 8

Testing Dates April 2003	Sample Description Nylon	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	0
Acetone	0
Acid Dichromate (5%)	1
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	0
Carbon Tetrachloride	0
Chloroform	0
Chromic Acid (60%)	2
Cresol	1
Dichloroacetic acid	0
Dimethylformamide	0
Dioxane	0
Ethyl Ether	0
Formaldehyde (37%)	0
Formic Acid (90%)	3
Furfural	0
Gasoline	0
Hydrochloric acid (37%)	2
Hydrofluoric acid (48%)	2

Hydrogen Peroxide (28%)	2
Tincture of Iodine	1
Methyl Ethyl Ketone	0
Methylene Chloride	1
Monochlorobenzene	1
Napthalene	0
Nitric acid (20%)	2
Nitric acid (30%)	2
Nitric acid (70%)	3
Phenol (90%)	2
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	1
Sodium Hydroxide (20%)	1
Sodium Hydroxide (40%)	1
Sodium Hydroxide (flake)	1
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	1
Sulfuric acid (85%)	2
Sulfuric acid (96%)	2
Sulfuric acid (85%) and Nitric acid (70%), equal parts	3
Toluene	0
Trichloroethylene	0
Xylene	0
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates April 2003	Sample Description LDPE	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	1
Ethyl Acetate	0
Acetic Acid (Conc)	2
Acetone	1
Acid Dichromate (5%)	0
Butyl Alcohol	0
Ethyl Alcohol	1
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	2
Carbon Tetrachloride	2
Chloroform	1
Chromic Acid (60%)	0
Cresol	1
Dichloroacetic acid	2
Dimethylformamide	0
Dioxane	1
Ethyl Ether	1
Formaldehyde (37%)	2
Formic Acid (90%)	2
Furfural	2
Gasoline	0
Hydrochloric acid (37%)	1
Hydrofluoric acid (48%)	0

Hydrogen Peroxide (28%)	1
Tincture of Iodine	1
Methyl Ethyl Ketone	2
Methylene Chloride	2
Monochlorobenzene	1
Napthalene	1
Nitric acid (20%)	1
Nitric acid (30%)	1
Nitric acid (70%)	1
Phenol (90%)	1
Phosphoric acid (85%)	1
Silver Nitrate (sat'd.)	0
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	1
Sodium Hydroxide (flake)	1
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	0
Sulfuric acid (85%)	1
Sulfuric acid (96%)	1
Sulfuric acid (85%) and Nitric acid (70%), equal parts	1
Toluene	2
Trichloroethylene	2
Xylene	1
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates April 2003	Sample Description HIPS	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	1
Ethyl Acetate	2
Acetic Acid (Conc)	0
Acetone	1
Acid Dichromate (5%)	0
Butyl Alcohol	1
Ethyl Alcohol	1
Methyl Alcohol	1
Ammonium Hydroxide (28%)	0
Benzene	2
Carbon Tetrachloride	2
Chloroform	2
Chromic Acid (60%)	0
Cresol	2
Dichloroacetic acid	1
Dimethylformamide	1
Dioxane	2
Ethyl Ether	2
Formaldehyde (37%)	0
Formic Acid (90%)	0
Furfural	2
Gasoline	1
Hydrochloric acid (37%)	0
Hydrofluoric acid (48%)	0

Hydrogen Peroxide (28%)	0
Tincture of Iodine	1
Methyl Ethyl Ketone	2
Methylene Chloride	2
Monochlorobenzene	2
Napthalene	1
Nitric acid (20%)	1
Nitric acid (30%)	1
Nitric acid (70%)	1
Phenol (90%)	2
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	0
Sodium Hydroxide (flake)	0
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	0
Sulfuric acid (85%)	1
Sulfuric acid (96%)	1
Sulfuric acid (85%) and Nitric acid (70%), equal parts	1
Toluene	2
Trichloroethylene	2
Xylene	2
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates April 2003	Sample Description HDPE	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	0
Acetone	2
Acid Dichromate (5%)	0
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	2
Carbon Tetrachloride	1
Chloroform	2
Chromic Acid (60%)	0
Cresol	2
Dichloroacetic acid	0
Dimethylformamide	0
Dioxane	1
Ethyl Ether	1
Formaldehyde (37%)	0
Formic Acid (90%)	0
Furfural	0
Gasoline	1
Hydrochloric acid (37%)	0
Hydrofluoric acid (48%)	0

Hydrogen Peroxide (28%)	0
Tincture of Iodine	1
Methyl Ethyl Ketone	2
Methylene Chloride	2
Monochlorobenzene	2
Napthalene	1
Nitric acid (20%)	0
Nitric acid (30%)	1
Nitric acid (70%)	1
Phenol (90%)	2
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	0
Sodium Hydroxide (10%)	1
Sodium Hydroxide (20%)	1
Sodium Hydroxide (40%)	1
Sodium Hydroxide (flake)	1
Sodium Sulfide (sat'd.)	1
Sulfuric acid (25%)	0
Sulfuric acid (85%)	0
Sulfuric acid (96%)	1
Sulfuric acid (85%) and Nitric acid (70%), equal parts	1
Toluene	2
Trichloroethylene	2
Xylene	1
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates April 2003	Sample Description Epoxy Coating	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	1
Acetone	0
Acid Dichromate (5%)	2
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	0
Carbon Tetrachloride	0
Chloroform	1
Chromic Acid (60%)	2
Cresol	0
Dichloroacetic acid	1
Dimethylformamide	0
Dioxane	0
Ethyl Ether	0
Formaldehyde (37%)	0
Formic Acid (90%)	1
Furfural	1
Gasoline	0
Hydrochloric acid (37%)	0
Hydrofluoric acid (48%)	1

Hydrogen Peroxide (28%)	0
Tincture of Iodine	1
Methyl Ethyl Ketone	1
Methylene Chloride	0
Monochlorobenzene	0
Napthalene	0
Nitric acid (20%)	1
Nitric acid (30%)	1
Nitric acid (70%)	1
Phenol (90%)	1
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	0
Sodium Hydroxide (flake)	0
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	0
Sulfuric acid (85%)	2
Sulfuric acid (96%)	2
Sulfuric acid (85%) and Nitric acid (70%), equal parts	2
Toluene	0
Trichloroethylene	0
Xylene	0
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates April 2003	Sample Description Chrome	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	0
Acetone	0
Acid Dichromate (5%)	1
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	1
Benzene	0
Carbon Tetrachloride	0
Chloroform	0
Chromic Acid (60%)	1
Cresol	0
Dichloroacetic acid	0
Dimethylformamide	0
Dioxane	0
Ethyl Ether	0
Formaldehyde (37%)	0
Formic Acid (90%)	1
Furfural	0
Gasoline	0
Hydrochloric acid (37%)	1
Hydrofluoric acid (48%)	1

Hydrogen Peroxide (28%)	1
Tincture of Iodine	0
Methyl Ethyl Ketone	0
Methylene Chloride	0
Monochlorobenzene	0
Napthalene	0
Nitric acid (20%)	1
Nitric acid (30%)	1
Nitric acid (70%)	2
Phenol (90%)	0
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	1
Sodium Hydroxide (flake)	1
Sodium Sulfide (sat'd.)	1
Sulfuric acid (25%)	0
Sulfuric acid (85%)	0
Sulfuric acid (96%)	0
Sulfuric acid (85%) and Nitric acid (70%), equal parts	2
Toluene	0
Trichloroethylene	0
Xylene	0
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of SEFA standards, section 8

Testing Dates April 2003	Sample Description Aluminum	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	0
Acetic Acid (Conc)	0
Acetone	0
Acid Dichromate (5%)	1
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	1
Benzene	0
Carbon Tetrachloride	1
Chloroform	0
Chromic Acid (60%)	2
Cresol	0
Dichloroacetic acid	2
Dimethylformamide	0
Dioxane	0
Ethyl Ether	0
Formaldehyde (37%)	0
Formic Acid (90%)	0
Furfural	0
Gasoline	0
Hydrochloric acid (37%)	2

Hydrofluoric acid (48%)	2
Hydrogen Peroxide (28%)	0
Tincture of Iodine	1
Methyl Ethyl Ketone	0
Methylene Chloride	1
Monochlorobenzene	2
Napthalene	0
Nitric acid (20%)	0
Nitric acid (30%)	1
Nitric acid (70%)	1
Phenol (90%)	0
Phosphoric acid (85%)	1
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	1
Sodium Hydroxide (20%)	2
Sodium Hydroxide (40%)	2
Sodium Hydroxide (flake)	1
Sodium Sulfide (sat'd.)	2
Sulfuric acid (25%)	2
Sulfuric acid (85%)	2
Sulfuric acid (96%)	2
Sulfuric acid (85%) and Nitric acid (70%), equal parts	2
Toluene	0
Trichloroethylene	1
Xylene	0
Zinc Chloride (sat'd.)	2

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of
SEFA standards, section 8

Testing Dates April 2003	Sample Description Acrylic	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	2
Ethyl Acetate	2
Acetic Acid (Conc)	2
Acetone	2
Acid Dichromate (5%)	1
Butyl Alcohol	1
Ethyl Alcohol	1
Methyl Alcohol	1
Ammonium Hydroxide (28%)	0
Benzene	2
Carbon Tetrachloride	2
Chloroform	2
Chromic Acid (60%)	1
Cresol	2
Dichloroacetic acid	1
Dimethylformamide	1
Dioxane	2
Ethyl Ether	2
Formaldehyde (37%)	1
Formic Acid (90%)	1
Furfural	0
Gasoline	1
Hydrochloric acid (37%)	0
Hydrofluoric acid (48%)	0

Hydrogen Peroxide (28%)	0
Tincture of Iodine	0
Methyl Ethyl Ketone	2
Methylene Chloride	2
Monochlorobenzene	2
Napthalene	1
Nitric acid (20%)	1
Nitric acid (30%)	1
Nitric acid (70%)	2
Phenol (90%)	2
Phosphoric acid (85%)	0
Silver Nitrate (sat'd.)	0
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	0
Sodium Hydroxide (flake)	0
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	0
Sulfuric acid (85%)	0
Sulfuric acid (96%)	0
Sulfuric acid (85%) and Nitric acid (70%), equal parts	1
Toluene	2
Trichloroethylene	2
Xylene	2
Zinc Chloride (sat'd.)	0

Chemical Resistance Testing

Testing results reported herein conducted under the specifications of SEFA standards, section 8

Testing Dates April 2003	Sample Description ABS Plastic	Rating Scale: Level 0 – No Detectable Change Level 1 – Slight Change in Color or Gloss Level 2 – Slight Surface Etching or Severe Staining Level 3 – Pitting, Cratering, Swelling, Erosion of Coating, Obvious & Significant Deterioration
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Chemical Agent	Rating
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Amyl Acetate	0
Ethyl Acetate	2
Acetic Acid (Conc)	1
Acetone	2
Acid Dichromate (5%)	0
Butyl Alcohol	0
Ethyl Alcohol	0
Methyl Alcohol	0
Ammonium Hydroxide (28%)	0
Benzene	2
Carbon Tetrachloride	1
Chloroform	1
Chromic Acid (60%)	2
Cresol	1
Dichloroacetic acid	1
Dimethylformamide	1
Dioxane	2
Ethyl Ether	2
Formaldehyde (37%)	0
Formic Acid (90%)	2
Furfural	2
Gasoline	1
Hydrochloric acid (37%)	0
Hydrofluoric acid (48%)	1

Hydrogen Peroxide (28%)	0
Tincture of Iodine	2
Methyl Ethyl Ketone	2
Methylene Chloride	2
Monochlorobenzene	2
Napthalene	2
Nitric acid (20%)	2
Nitric acid (30%)	2
Nitric acid (70%)	2
Phenol (90%)	2
Phosphoric acid (85%)	1
Silver Nitrate (sat'd.)	1
Sodium Hydroxide (10%)	0
Sodium Hydroxide (20%)	0
Sodium Hydroxide (40%)	0
Sodium Hydroxide (flake)	0
Sodium Sulfide (sat'd.)	0
Sulfuric acid (25%)	2
Sulfuric acid (85%)	2
Sulfuric acid (96%)	2
Sulfuric acid (85%) and Nitric acid (70%), equal parts	2
Toluene	2
Trichloroethylene	2
Xylene	2
Zinc Chloride (sat'd.)	0