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REAGENT	Polystyrene-R	Polystyrene-SR	Polypropylene	PVC	Nylon	Polyester	Notes
Acetaldehyde	U	U	M	M	M	M	
Acetic Acid 5%	S	S	S	S	M	S	Will etch Nylon
Acetic Acid 10%	M	S	S	S	M	S	
Acetic Acid 100%	U	U	S	S	U	U	Will dissolve Nylon
Acetone	U	U	S	U	S	M	
Acetophenone	U	U	S	U	S	S	Solvent for SR
Allyl Alcohol	M	U	S	S	S	S	
Aluminum Chloride	S	S	S	S	M	S	
Aluminum Sulfate	S	S	S	S	S	S	
Ammonia Solution	S	S	S	S	S	S	(aka) Ammonium Hydroxide
Amyl Alcohol	U	M	S	S	S	S	
Amyl Acetate n-	U	U	S	U	S	S	Solvent for R
Amyl Chloride	U	U	M	U			
Amyl Phthalate	U	U		M			
Anti-Freeze	S	S	S	S	S	S	
Aqua Regia	M	U	S	U	U	U	
Aromatic Hydrocarbons	U	U	U	U	S	M	
Barium Carbonate	S	S	S	S	S	S	
Benzaldehyde	U	U	M	U	S		
Benzene	U	U	U	U	S	M	Solvent for R
Benzoic Acid	S	S	S	S	S	S	
Benzyl Acetate	U	U	M	U			
Borax	S	S	S	S	S	S	
Boric Acid	S	S	S	S	S	S	
Brake Fluid	U	S	M	S	S		
Bromine Liquid	U	U	M	M	U	U	
Butanol	U	M	S	M	S	S	
Butter	U	S	S	S	S	S	
Butyl Acetate iso-	U	U	S	U	S	M	Solvent for R and SR
Butyl Acetate n-	U	U	S	U	S	M	Solvent for R and SR
Butyl Alcohol iso-	S	M	S	S	S	S	



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Butyl Alcohol n-	S	M	S	S	S	S	
Butyl Phthalate	U	U	S	M	S	S	
Calcium Chloride	S	S	S	S	U	S	
Calcium Hypochlorite	M	S	S	S	U	S	
Camphor	M	S	U	M	S	S	
Carbon Tetrachloride	U	U	U	M	S	S	Solvent for R
Carbolic Acid 50%	M	U	S	M	U	U	aka Phenol; Solvent for Nylon
Carbolic Acid 100%	U	U	S	U	U	U	aka Phenol; Solvent for Nylon
Castor Oil	S	S	S	S	S	S	
Caustic Soda	S	S	S	M	M	M	aka Sodium Hydroxide
Cedar wood oil	U	M	M				
Cellosolve	U	S	M	S	S		
Cellulose Acetate	U	U	S	U	S	S	
Cetyl Alcohol	S	S	S	S	S	S	
Chlorobenzene	U	U	U	S	M		Solvent for R & SR
Chloroform	U	U	U	U	M	M	Solvent for R; Temporarily softens Nylon
Chlorine	U	M	U	S	U	U	
Chromic Acid	S	S	S	S	U	M	
Citric Acid 10%	S	S	S	S	M	S	
Citric Acid 20%	M	S	S	S	M	S	
Citrus Oil	U	M	S	M	S	S	
Cocoa Butter	M	S	S	S	S	S	
Cod Liver Oil	M	S	S	S	S	S	
Coconut Oil	M	S	S	S	S	S	
Copper Salts	M	S	M	S	M	M	
Corn Oil	M	S	S	S	S	S	
Cottonseed Oil	M	S	S	S	S	S	
Cyclohexane	U	U	M	M	S	S	
Cyclohexanol	S	M	S	M	S		
Cyclohexanone	U	U	M	U	S	Solvent	for R and SR
Decalin	U	U	U	S	S	M	Solvent for R



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REAGENT	Polystyrene-R	Polystyrene-SR	Polypropylene	PVC	Nylon	Polyester	Notes
Detergents	M	S	S	S	S	S	
Diacetone	M	U	S	M	U		
Dibutyl Sebacate	U	U	S				
Dichlorobenzene o-	U	U	U				Solvent for R.
Dichlorobenzene p-	U	U	U	S			aka Moth Balls; solvent for R.
Diethylene Glycol	S	S	S	M	M	M	
Diethylketone	U	U	S	U	M	U	Solvent for R and SR
Dimethyl Formamide	U	U	S	U	M	S	Solvent for SR
Dimethyl Phthalate	U	U	M	S	S		
Epichlorohydrin	M	M	S	M			
Ether	U	U	S	U	S	S	
Ethyl Acetate	U	U	M	U	S	M	Solvent for R
Ethyl Alcohol 95%	M	M	S	S	S	S	Temporarily softens Nylon
Ethyl Benzene	U	U	U	U	S	S	Solvent for R
Ethyl Benzoate	U	U	S	U	S	S	
Ethyl Chloride (Gas & Liq.)			U	U	M	U	S S
Ethyl Ether	U	U	S	U	S	S	
Ethyl Lactate	U	U	S	U	M	S	
Ethylene Dichloride	U	U	M	U	S	M	Solvent for R
Ethylene Glycol	S	S	S	S	S	S	
Ethylene Oxide	U	U	M	U	M	S	
Ferrous Chloride	S	S	S	S	U	S	
Formaldehyde	U	M	S	S	S	S	
Formic Acid	M	M	S	S	U	S	Solvent for Nylon
Furfuryl Alcohol	U	U	M	M	S	S	
Gasoline	U	S	M	M	S	S	
Glucose 0.3	S	S	S	S	S	S	
Glycerin	S	S	S	S	M	S	
Heptyl Alcohol n-	S	S	M				
Hexane	U	S	M	M	S	S	
Hexyl Alcohol n-	S	S	M				



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REAGENT	Polystyrene-R	Polystyrene-SR	Polypropylene	PVC	Nylon	Polyester	Notes
Hydrochloric Acid 10%	S	S	S	S	U	S	Dissolve Nylon 6
Hydrochloric Acid 38%	M	S	S	S	U	M	Dissolves Nylon 6 & 6.6; Softens 6.12
Hydrofluoric	U	S	S	S	U	U	
Hydrogen Peroxide 3%	S	S	S	S	U	S	
Hydrogen Peroxide 30%	S	S	M	S	U	S	R and SR show excellent resistance
Hydroquinone	M	S	S	U	S		
Iodine Tincture	M	U	S	S	U		
Isopropyl Alcohol	M	S	S	S	S	M	
Kerosene	U	S	M	S	S	S	
Lactic Acid 10%	U	S	S	S	M	S	
Lanolin	S	S	S	S	S	S	
Lard	M	S	S	S	S	S	
Lauryl Alcohol	S	S	S	S	S		
Lemon Juice	M	S	S	S	M	S	
Lubricating Oil	M	S	S	S	S	S	
Lye	S	S	S	M	M	M	
Magnesium Carbonate	S	S	S	S	S	S	
Maleic Acid 10%	S	S	S	S	S	S	
Mercuric Chloride 5%	S	S	S	S	U		
Mesityl Oxide	U	U					Solvent for R
Methyl Acetate	U	U	M	U	S	M	Temporary loss of stiffness in Nylon
Methyl Alcohol	M	U	S	S	S	S	Temporary loss of stiffness in Nylon
Methyl Chloride	U	U	M	S			
Methyl Ethyl Ketone	U	U	M	U	S	M	Solvent for R and SR; Softens Nylon
Methyl Isobutyl Ketone	U	U	M	U	S	U	Solvent for R and SR
Methyl Propyl Ketone	U	U	M	U	S	U	Solvent for R and SR
Methyl Salicylate	U	U					aka oil of Wintergreen
Methylene Chloride	U	U	M	U	M	U	
Milk	S	S	S	S	S	S	
Mineral Oil	S	S	M	S	S	S	
Monochlorobenzene	U	U	U	U	S	M	Solvent for R and SR



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Motor Oil	M	M	S	S	S	S	
Nitric Acid	U	M	M	M	U	M	Polyester is not affected by 0.5 nitric acid
Nonyl Alcohol	S	S	S	S	S		
Octyl Alcohol	S	S	S	S	S		
Oils-Essential	U	U	M	M	S	S	
Oils-Vegetable	M	S	S	S	S	S	
Oleic Acid 100%	M	S	S	S	S	S	
Orange Juice Fresh	M	S	S	S	S	S	
Orange Juice Conc.	S	S	S	S	S	S	
Oxalic Acid 10%	S	S	S	S	M	S	
Ozone	S	S	M	S	M	M	In absence of light
Paint Thinner	U	M	M	S	S	S	aka VM&P naphtha
Palm Oil	M	S	S	S	S	S	
Palmitic Acid	M	S	S	S	S	S	
Peanut Oil	M	S	S	S	S	S	
Pectin	S	S	S	S	S	S	
Perchloroethylene	U	M	U	U	S	S	
Petroleum Distillate	U	M	M	S	S	S	
Petroleum Jelly	S	S	S	S	S	S	
Phenol 5%	M	U	S	U			Solvent for Nylon
Phosphoric Acid 50%	S	S	S	S	U	S	
Potassium Hydroxide 30%	S	S	S	S	S	U	
Potassium Hydroxide 35%	M	S	S	S	S	U	
Potassium Hydroxide 50%	S	S	S	M	U		
Potassium Bromide	M	S	S	S	S	S	
Potassium Ferricyanide	S	S	S	S	S	S	
Potassium Iodide	S	S	S	S			
Potassium Permanganate	M	S	M	S	U	S	
Potassium Thiocyanate	S	S	S	S	U	S	Nylon 6.12 has greater resistance than Nylon 6 or 6.6
Propyl Alcohol iso-	M	M	S	S	M	M	
Propylene Dichloride	U	U					



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Propylene Glycol	S	S	S	M	S	S	
Resorcinol	S	S	M	U			Solvent for Nylon
Salicylic Acid	S	S	S	S	S	M	
Silver Nitrate	S	S	S	S	S	S	
Sodium Acetate	S	S	S	S	S	S	
Sodium Benzoate	S	S	S	S	S	S	
Sodium Bicarbonate	S	S	S	S	S	S	
Sodium Bisulphate	M	S	S	S	S	S	
Sodium Borate	S	S	S	S	S	S	
Sodium Bromide	S	S	S	S	S	S	
Sodium Carbonate	M	S	S	S	S	S	
Sodium Chloride	M	S	S	S	S	S	
Sodium Dichromate 10%	M	S	S	S	M	M	
Sodium Fluoride 5%	M	S	S	S			
Sodium Hydroxide 40%	S	S	S	S	M	U	
Sodium Hypochlorite 5%	S	S	M	S	U	M	aka bleach, CLOROX®
Sodium Tetraborate	S	S	S	S	S	M	aka Borax
Sodium Thiosulfate	S	S	S	S	S	S	aka Hypo
Stannic Chloride	S	S	S	S	M		
Stearic Acid (powder)	S	S	S	S	S	S	
Stoddard Solvent	U	S	M	S	S	S	
Sucrose 30%	S	S	S	S	S	S	
Sulphuric Acid 2%	S	S	S	S	M	S	
Sulphuric Acid 50%	S	S	S	S	U	U	
Sulphuric Acid 96%	U	U	S	M	U	U	
Tannic Acid 2%	U	S	S	S	S	S	
Tartaric Acid	S	S	S	S	S	S	
Tea (sol.)	S	S	S	S	S	S	
Tetrahydrofuran	U	U	S	U	S	S	Solvent for R and SR
Tetralin	U	U	M	S	S	S	
Thionyl Chloride	U	U	U				



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REAGENT	Polystyrene-R	Polystyrene-SR	Polypropylene	PVC	Nylon	Polyester	Notes
Toluene	U	U	M	U	S	M	
Trichloroethylene (1,1,1-)	U	U	U	U	S	S	Softens nylon; Solvent for R and SR
Trisodium Phosphate	S	S	S	S	S	M	
Triethylene Glycol	S	S	S	M	S	S	
Triethylene Tetramine	M	S					
Turpentine	U	M	M	M	S	S	
Water	S	S	S	S	S	S	Softens and swells Nylon 6 and 6.6
Water Carbonated	S	S	S	S	S	S	
Xylene	U	U	M	U	S	M	Solvent for R
Zinc Chloride	S	S	S	S	U	S	Nylon 6.12 has better resistance than 6 or 6.6
Zinc Salts in Solution	S	S	S	S	U	S	Leads to environmental stress cracking in Nylon
Zinc Stearate	S	S	S	S	S	S	