CHEMICAL, OIL AND SOLVENT RESISTANCE

Chemical resistance is rated on samples immersed for seven days at 20 degrees Centigrade (70 degrees F).

The ratings are based on volume change as follows:

A = Excellent	0-3%
B = Good	4-15%
C = Fair	16-35%

D = Poor 36% and over

CHEMICAL	RATING	CHEMICAL	RATING
Acetaldehyde	D	Butyl Alcohol	В
Acetic Acid	C-D		
Acetone	D	Calcium Hydroxide	Α
Aluminum Chloride	Α	Calcium Salts	Α
Aluminum Sulphate	Α	Carbon Monoxide	Α
Ammonia	В	Carbon Tetrachloride	С
Ammonium Chloride	Α	Castor Oil	A-B
Ammonium Hydroxid	le A-B	Chlorine	C-D
Ammonium Nitrate	Α	Chloroform	D
Ammonium Sulphate	: A	Chromic Acid	C-D
Aniline	D	Chromium Salts	Α
Animal Fats & Oils	A-B	Citric Acid	D
Antimony Salts	В	Cottonseed Oil	Α
Arsenic Salts	Α	Copper Salts	Α
ASTM Oil #1	A-B	Cyclohexane	В
ASTM Oil #2	D	Cycloheanene	D
ASTM #3	В		
ASTM Ref. Fuel A	Α	Dichlorobenzene	С
ASTM Ref. Fuel B	В	Diethylene Glycol	В
		Dimethylformaldehyde	D
Barium Hydroxide	Α		

CHEMICAL	RATING	CHEMICAL	RATING
Barium Salts	Α	Ethanol	В-С
Benzaldehyde	B-C	Ether	B-C
Benzene	D	Ethylene Glycol	В
Boric Acid	Α		
Bromine	B-C	Ferric Salts	Α
Butyl Acetate	D	Formaldehyde	С
Formic Acid	C-D	Mineral Oil	Α
Fuel Oil	В	Naphthalene	Α
Gasoline	A-B	Natural Gas	Α
Glycerol	Α	Nickel Salts	Α
		Nitric Salts	Α
		Nitric Acid	D
		Nitric Acid (5%)	A-B
Hexane	Α	Nitrobenzene	D
Hydrazine	D		
Hydrobromic Acid	D	Oleic Acid	A-B
Hydrocarbon Oil	Α	Oxalic Acid (5%)	Α
Hydrochloric Acid	В	Oxygen	Α
Hydrofluoric Acid	B-C	Ozone	Α
Hydrogen Peroxide	В		
Hydrogen Sulphide	C-D	Paints	Α
Iodine Solution	Α	Polmitic Acid	Α
Isooctane	В	Perchloric Acid	D
Isopropanol	B-C	Perchloroethylene	C-D
		Pairol	A-B
JP-4	B-C	Phenol	D
JP-5, JP-6 Oils	D	Phosphoric Acid (10%)	A-B
		Phosphoric Acid	С

CHEMICAL	RATING	CHEMICAL	RATING
Kerosene	В	Potassium Salts	А
		Propanol	B-C
Lactic Acid	В	Propylene Glycol	В
Lead Salts	Α		
Linseed Oil	В	Seawater	Α
Lubricating Oil	D	Silicic Acid	A-B
		Silver Salts	Α
Magnesium Salts	Α	Skydrol Oil	D
Manganese Salts	Α	Soaps	A-B
Malaic Acid	C-D	Sodium Hydroxide (10%)	A-B
Mercury	Α	Sodium Hydroxide (45%)	B-C
Methanol	D	Sodium Hypochlorite	D
Methyl Ethyl Ketone	D	Sodium Salts	Α
Methylene Chloride	D	Steam	D
Styrene	Α	Triethylanolamine	В
Sulphur Dioxide	В	Trisodium Phosphate	В
Sulfuric Acid (10%)	A-B	Turpentine	B-C
Sulfuric Acid (30%)	С	Urea	A-B
Tannic Acid	Α		
Tartaric Acid	Α	Varnish	A-B
Tin Salts	Α		
Titanium Salts	Α	Water	Α
Toluene	D		
Transformer Oil	B-C	Xylene	С
Trichloroethylene	D		
Tricresyl Phosphate	C-D	Zinc Salts	Α

ADDITIONAL TESTS AND PROCEDURES

TEST PARAMETER	STANDARD
Hardness, Durometer	ASTM D2240
Modulus	ASTM D412
Ultimate Tensile Strength	ASTM D412
Elongation	ASTM D412
Tear Strength	ASTM D624 Die C
Compression Set	ASTM D395 Method B
Rebound	ASTM D2632
Abrasion Resistance	ASTM D1044 Tabor H22
Abrasion Resistance NBS	ASTM D1630

Note: Abrasion Resistance is rated as "very good" on standard cable protectors (Yellow Jacket and Bumble Bee series). Rated "excellent" for Hipperthane cable protectors.