ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Hypochlorous acid 14%	14% AV Chlorine	–	–	–	–	–
I						
IMS	Usual industrial	–	–	–	–	–
Ink *(see note 5)*	Usual industrial					–
Iodine, tincture of	Usual commercial	–	–	–	–	–
Iron salts *(see note 19)*	Usual technical					–
K						
Kerosene	Usual commercial					–
L						
Lactic acid 10%	Aqueous					–
Lactic acid 75%	Aqueous	–	–	–	–	–
Lanolin	Usual commercial	+	+	+	–	–
Latex, natural	Unadulterated emulsion	+				–
Latex, synthetic *(see note 5)*	Emulsion					–
Lead acetate	Saturated aqueous	+	+	+	–	–
Lemon juice	Usual commercial	+	+	+	–	–
Lemonade	Usual commercial	+				–
Lime *(see note 6)*	Powder	+	+	+	–	–
Linseed oil	Raw or boiled	–	–	–	–	–
M						
Magnesium carbonate *(see note 6)*	Saturated aqueous	+	+	+	–	–
Magnesium chloride	Saturated aqueous	+	+	+	–	–
Magnesium hydroxide *(see note 6)*	Saturated aqueous	+	+	+	–	–
Magnesium nitrate	Saturated aqueous	+	+	+	–	–
Magnesium sulphate	Saturated aqueous	+	+	+	–	–
Mercuric chloride	Saturated aqueous	*				–
Mercurous nitrate	Saturated aqueous	*	*	*	–	–
Mercury	Metallic liquid	+				–
Mesityl oxide	Usual technical	–	–	–	–	–
Metallic soaps	Suspended aqueous	+	+	+	–	–
Methane	Landfill gas	*				–
Methyl acetate	Usual technical	–	–	–	–	–

+ Resistant * Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Methyl alcohol	Usual technical	–	–	–	–	–
Methyl carbitol	Usual commercial	–	–	–	–	–
Methyl cellosolve	Usual commercial	–	–	–	–	–
Methyl ethyl ketone	Usual technical	–	–	–	–	–
Methyl-*iso*-butyl ketone	Usual technical	–	–	–	–	–
Methyl methacrylate	Usual technical	–	–	–	–	–
Methylated spirits (industrial)	Usual commercial	–	–	–	–	–
Milk	from any animal	+	+	+	–	–
Mineral oil ***(see note 11)***	Usual proprietary					–
Molasses	Usual commercial	+	+	+	–	–
MSG	Saturated aqueous	+	+	+	–	–
N						
Naphtha	Usual commercial	–	–	–	–	–
Nickel chloride	Saturated aqueous	+	+	+	–	–
Nickel nitrate	Saturated aqueous	+	+	+	–	–
Nickel sulphate	Saturated aqueous	+	+	+	–	–
Nitric acid, fuming	Nitric acid, fuming	–	–	–	–	–
Nitric acid, 10%	Usual technical	+				–
Nitric acid, 40%	Usual technical	–	–	–	–	–
Nitric acid, 50%	Usual technical	–	–	–	–	–
Nitric acid, 70%	Usual technical	–	–	–	–	–
Nitrobenzene	Usual technical	–	–	–	–	–
Nitrotuluene	Usual technical	–	–	–	–	–
O						
Oleic acid	Usual technical					–
Oleum	Usual technical	–	–	–	–	–
Olive Oil	Usual commercial	–	–	–	–	–
Orange juice	Usual commercial	+	+	+	–	–
Oxalic acid	Saturated aqueous	+	*	*	–	–
Oxygen	Gaseous	+	+	+	–	–
Ozone, trace levels	Aqueous, for sterilization	+				–
P						
Paint ***(see note 5)***	Usual proprietary					–
Palmitic acid	Usual technical					–

+ Resistant * Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Paraffin (Liquie)	Ususal technical	+	+	+	–	–
Paraffin fuel	Usual commercial					–
n-Pentane	Usual technical	–	–	–	–	–
Pepsi-cola	Usual proprietary	+				–
Peracetic acid, trace levels	Aqueous, for sterilization	+				–
Perfume ***(see note 5)***	Usual commercial					–
Peroxyacetic acid, trace levels	Aqueous, for sterilization	+				–
Petrol	Usual commercial	–	–	–	–	–
Petroleum	Natural crude	–	–	–	–	–
Petroleum ether	Boiling 30-90°C	–	–	–	–	–
Petroleum jelly	Usual commercial	+				–
Phosphoric acid 85%	Usual technical	–	–	–	–	–
Plaster of Paris ***(see note 6)***	Saturated aqueous	+	+	+	–	–
Plasticizers ***(see note 12)***	Usual industrial					–
Polish ***(see note 5)***	Usual proprietary					–
Potable water	Usual domestic	+	+	+	–	–
Potash	Saturated aqueous	+	+	+	–	–
Potassium bicarbonate	Saturated aqueous	+	+	+	–	–
Potassium bisulphate	Saturated aqueous	+	+	+	–	–
Potassium bisulphite	Saturated aqueous	+	+	+	–	–
Potassium bromate ***(see note 13)***	Saturated aqueous	+	+	+	–	–
Potassium bromide ***(see note 14)***	Saturated aqueous	+	+	+	–	–
Potassium carbonate	Saturated aqueous	+	+	+	–	–
Potassium chlorate	Saturated aqueous	+	+	+	–	–
Potassium chloride	Saturated aqueous	+	+	+	–	–
Potassium cyanide	Saturated aqueous	+	+	+	–	–
Potassium dichromate	Saturated aqueous	+	+	+	–	–
Potassium ferricyanide	Saturated aqueous	+	+	+	–	–
Potassium ferrocyanide	Saturated aqueous	+	+	+	–	–
Potassium fluoride	Saturated aqueous	+	+	+	–	–
Potassium hydroxide 20%	Saturated aqueous	+	+	+	–	–
Potassium hydroxide	Saturated aqueous	+	+	+	–	–
Potassium iodate ***(see note 15)***	Saturated aqueous	+	+	+	–	–
Potassium iodide ***(see note 16)***	Saturated aqueous	+	+	+	–	–
Potassium metaborate	Saturated aqueous	+	+	+	–	–
Potassium nitrate	Saturated aqueous	+	+	+	–	–
Potassium permanganate	Saturated aqueous					–
Potassium persulphate	Saturated aqueous	+	+	+	–	–
Potassium sulphate	Saturated aqueous	+	+	+	–	–
Potassium sulphite	Saturated aqueous	+	+	+	–	–

+ Resistant ∗ Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Potassium thiosulphate	Saturated aqueous	+	+	+	–	–
Propionic acid	Usual technical	–	–	–	–	–
iso-Propyl alcohol	Usual technical					–
Propylene glycol	Usual technical	+	+	+	–	–
Pyridine	Usual technical	–	–	–	–	–
R						
Rectified spirit	Usual commercial	–	–	–	–	–
Refrigerant 22	Usual commercial	–	–	–	–	–
S						
Saltpetre	Saturated aqueous	+	+	+	–	–
Sea water	From anywhere	+	+	+	–	–
Slaked lime ***(see note 6)***	Saturated aqueous	+	+	+	–	–
Soda water	Usual commercial	+				–
Sodium acetate	Saturated aqueous	+	+	+	–	–
Sodium aluminate	Saturated aqueous	+	+	+	–	–
Sodium benzoate	Saturated aqueous					–
Sodium bicarbonate	Saturated aqueous	+	+	+	–	–
Sodium bisulphate	Saturated aqueous	+	+	+	–	–
Sodium bisulphite	Saturated aqueous	+	+	+	–	–
Sodium bromate ***(see note 13)***	Saturated aqueous	+	+	+	–	–
Sodium bromide ***(see note 14)***	Saturated aqueous	+	+	+	–	–
Sodium carbonate	Saturated aqueous	+	+	+	–	–
Sodium chlorate	Saturated aqueous	+	+	+	–	–
Sodium chloride	Saturated aqueous	+	+	+	–	–
Sodium cyanide	Saturated aqueous	+	+	+	–	–
Sodium dichromate	Saturated aqueous	+	+	+	–	–
Sodium ferrocyanide	Saturated aqueous	+	+	+	–	–
Sodium fluoride	Saturated aqueous	+	+	+	–	–
Sodium hydroxide 20%	Aqueous	+	+	+	–	–
Sodium hydroxide	Saturated aqueous	+	+	+	–	–
Sodium hypochlorite 14%	14% Av Chlorine	–	–	–	–	–
Sodium iodide ***(see note 16)***	Saturated aqueous	+	+	+	–	–
Sodium metabisulphite	Saturated aqueous	+	+	+	–	–
Sodium metaborate ***(see note 17)***	Saturated aqueous	+	+	+	–	–
Sodium nitrate	Saturated aqueous	+	+	+	–	–
Sodium nitrite	Saturated aqueous	+	+	+	–	–

+ Resistant ∗ Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Sodium phosphate(s)	Saturated aqueous	+	+	+	–	–
Sodium silicate	Saturated aqueous	+	+	+	–	–
Sodium sulphate	Saturated aqueous	+	+	+	–	–
Sodium sulphite	Saturated aqueous	+	+	+	–	–
di-Sodium tetraborate	Saturated aqueous	+	+	+	–	–
Sodium thiosulphate	Saturated aqueous	+	+	+	–	–
Soft soap	Emulsified in water	+	+	+	–	–
Spindle oil *(see note 5)*	Usual industrial					–
Stannic chloride	Saturated aqueous					–
Stannous chloride	Saturated aqueous					–
Starch	Saturated aqueous	+	+	+	–	–
Steam	Usual industrial	–	–	–	–	–
Stearic acid *(see note 3)*	Suspended aqueous	+	+	+	–	–
Stoddard solvent	Usual commercial	–	–	–	–	–
Sulphamic acid	Saturated aqueous	+	+	+	–	–
Sulphur *(see note 3)*	Suspended aqueous	+				–
Sulphur dioxide gas (dry)	Usual technical					–
Sulphur dioxide gas (wet)	Usual technical	–	–	–	–	–
Sulphur dioxide liquid	Usual technical	–	–	–	–	–
Sulphuric acid 10%	Aqueous	+	+	+	–	–
Sulphuric acid 30%	Aqueous	+	+	+	–	–
Sulphuric acid 50%	Aqueous	+		–	–	–
Sulphuric acid 70%	Aqueous	–	–	–	–	–
Sulphuric acid 90%	Aqueous	–	–	–	–	–
Sulphuric acid 95%	Aqueous	–	–	–	–	–
Sulphuric acid 98%	Aqueous	–	–	–	–	–
Sulphuric acid, Oleum	Usual technical	–	–	–	–	–
Surfactants *(see note 18)*	Usual proprietary					–
T						
Tannin	10% Aqueous					–
Tartaric acid	Saturated Aqueous	+	+	+	–	–
1,1,1,2,2,-Tetrachloroethane	Usual technical	–	–	–	–	–
Tetrahydrofuran	Usual technical	–	–	–	–	–
Tetralin	Usual technical	–	–	–	–	–
Thionyl chloride	Usual technical	–	–	–	–	–
Toluene	Usual technical	–	–	–	–	–
Tomato Juice	Usual commercial	+				–
Transformer oil *(see note 5)*	Usual industrial					–

+ Resistant * Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Tri-*n*-butyl phosphate	Usual technical	–	–	–	–	–
Trichlorobenzene(s)	Usual technical	–	–	–	–	–
Trichloroethylene	Usual technical	–	–	–	–	–
Tricresyl phosphate	Usual industrial	–	–	–	–	–
Turpentine	Usual commercial	–	–	–	–	–
U						
Urea	Saturated aqueous	+	+	+	–	–
Uric acid ***(see note 3)***	Suspended aqueous	+	+	+	–	–
V						
Vaseline	Usual technical	+	+	+	–	–
Vinegar	Usual commercial	+				–
Vinoleo 77/14	Proprietary grease	+	+	+	–	–
Vinyl acetate	Usual industrial	–	–	–	–	–
W						
Water	Technical/Domestic & Ultra Pure	+	+	+	–	–
Water glass	Saturated aqueous	+	+	+	–	–
Wetting agents ***(see note 5)***	Usual proprietary					–
White sprit	Usual commercial	–	–	–	–	–
X						
Xylene	Usual technical	–	–	–	–	–
Y						
Yeast	Suspended aqueous	+				–
Z						
Zinc bromide 40%	Aqueous	+				–
Zinc bromide 60%	Aqueous	–	–	–	–	–
Zinc carbonate ***(see note 6)***	Saturated aqueous	+	+	+	–	–
Zinc chloride 40%	Aqueous	+				–
Zinc chloride 60%	Aqueous	–	–	–	–	–

+ Resistant ∗ Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

ACRYLONITRILE BUTADIENE STYRENE (ABS)

CHEMICAL RESISTANCE DATA

Chemical & Concentration	Usage	20°C (68°F)	40°C (104°F)	60°C (140°F)	80°C (176°F)	100°C (212°F)
Zinc nitrate	Saturated aqueous	+	+	+	–	–
Zinc oxide *(see note 6)*	Saturated aqueous	+	+	+	–	–
Zinc phosphate(s) *(see note 3)*	Suspended aqueous	+	+	+	–	–
Zinc sulphate	Saturated aqueous	+	+	+	–	–

+ Resistant ∗ Likely to be Resistant O Unlikely to be Resistant – Not Resistant ☐ No data available

NOTES

NOTES

SALES AND CUSTOMER SERVICE

Canadian Customers call IPEX Inc.
Toll free: (866) 473-9462
www.ipexinc.com

U.S. Customers call IPEX USA LLC
Toll free: (800) 463-9572
www.ipexamerica.com

About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- Telecommunications and utility piping systems
- PVC, CPVC, PP, ABS, PEX, FR-PVDF and PE pipe and fittings (1/4" to 48")
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems

IPEX

MNNANAIP090105R © 2009 IPEX NA0031UC