

JACKET & INSULATION MATERIALS COMPARISON CHART

THERMOPLASTIC PROPERTIES

Insulation or Jacket Material	Chlorinated Polyethylene (CPE)	Polyvinyl Chloride (PVC)	Lowdensity Polyethylene (LDPE)	Cellular Polyethylene	Highdensity Polyethylene	Polyurethane	Polypropylene	Nylon	Teflon®	TPE
Oxidation Resistance	E	E	E	E	E	E	E	E	O	E
Heat Resistance	G-E	G-E	G	G-E	E	E	G	E	O	G
Oil Resistance	E	E	G-E	G-E	G-E	G-E	E	E	O	P
Low Temp. Flexibility	G	P-G	G-E	E	E	E	G	G	O	E
Weather Resistance	E	G-E	E	E	E	E	F-G	E	O	E
Ozone Resistance	E	E	E	E	E	E	E	E	E	E
Abrasion Resistance	E	F-G	F-G	G	E	F-G	O	E	G-E	F
Electrical Properties	F	F-G	E	E	E	E	G	F	E	G
Flame Resistance	F	E	P	P	P	P	P	P	O	F-G
Nuclear Radiation Resistance	G-E	P-F	G	G	G	F	G	F-G	P-F	F
Water Resistance	G	E	E	E	E	E	P	P-F	E	E
Acid Resistance	G-E	G-E	G-E	G-E	G-E	E	F	E	E	G
Alkali Resistance	G-E	G-E	G-E	G-E	G-E	E	F	G	E	G
Gasoline, Kerosene, Etc. (Aliphatic Hydrocarbons) Resistance	F	G-E	P-F	P-F	P-F	P-F	F	G	E	P
Benzol, Toluol, Etc. (Aromatic Hydrocarbons) Resistance	F	P-F	P	P	P	P	F	G	E	P
Degreaser Solvents (Halogenated Hydrocarbons) Resistance	P	P-F	P	P	P	P	P	P	E	P
Alcohol Resistance	G	G-E	E	E	E	E	P	P	E	E

Any given property can generally be improved by the use of selective compounding.

LEGEND

P = Poor
 F = Fair
 G = Good
 E = Excellent
 O = Outstanding