



## COMPARATIVE INSULATION PROPERTIES\*

Insulation Properties	Insulation Types									
	Polyvinyl Chloride (PVC)	Low Density Polyethylene (LDPE)	High Density Polyethylene (HDPE)	Crosslinked Polyethylene (XLPE)	Ethylene Propylene Rubber (EPR)	Chloro-sulfonated Polyethylene (CSPE)	Ethylene Propylene Diene Monomer (EPDM)	Thermo-plastic Elastomer (TPE)	FEP Teflon** (FEP)	Silicone Rubber (SR)
Abrasion Resistance	F-G	F-G	E	F-G	G	G	G	F	E	F
Acid Resistance	G-E	G-E	G-E	G-E	G-E	E	G-E	G	E	F-G
Alcohol Resistance	G-E	E	E	E	P	G	P	E	E	G
Alkali Resistance	G-E	G-E	G-E	G-E	G-E	E	G-E	G	E	F-G
Benzol, Toluoul (Aromatic Hydrocarbons) Resistance	P-F	P	P	F	F	F	F	P	E	P
Degreasers (Halogenated Hydrocarbons) Resistance	P-F	P	P	F	P	P-F	P	P	E	P-G
Electrical Properties	F-G	E	E	E	E	G	E	G	E	O
Flame Resistance	G	P	P	F-G	P	G	P	F	O	F-G
Gasoline, Kerosene, etc. (Aliphatic Hydrocarbons) Resistance	G	P-F	P-F	F	P	F	P	P	E	P-F
Heat Resistance	G-E	G	E	G	E	E	E	G	O	G
Low Temp. Flexibility	P-G	G-E	E	O	G-E	F	G-E	E	O	O
Nuclear Radiation Resistance	P-F	G	G	E	G	G	G	F	P-F	E
Oil Resistance	E	G-E	G-E	G	F	G	P	P	O	F-G
Oxidation Resistance	E	E	E	E	G	E	G	E	O	E
Ozone Resistance	E	E	E	E	E	E	E	E	E	O
Water Resistance	G-E	E	E	G-E	G-E	G-E	G-E	E	E	G-E
Weather & Sun Resistance	G-E	E	E	G	E	E	E	E	O	O

\* Material properties can be modified with selective compounding.

\*\*Teflon is a DuPont trademark.

Comparative Measurements:

- P: Poor
- F: Fair
- G: Good
- E: Excellent
- O: Outstanding