

COMPARATIVE PROPERTIES OF INSULATION: PLASTIC

Polyethylene							
Cellular	High-Density	Low-Density	Nylon	Polypropylene	Polyurethane	PVC	Teflon®
Acid Resistance							
G to E	G to E	G to E	P to F	E	F	G to E	E
Abrasion Resistance							
G	E	F to G	E	F to G	O	F to G	G to E
Alcohol Resistance							
E	E	E	P	E	P	G	E
Alkali Resistance							
G to E	G to E	G to E	E	E	F	G	E
Benzol (Aromatic Hydrocarbons) Resistance							
P	P	P	G	P to F	P	P to F	E
Degreaser Solvents (Halogenated Hydrocarbons)							
P	P	P	G	P	P	P to F	E
Electrical Properties							
E	E	E	F	E	P to F	F to G	E
Flame Resistance							
P	P	P	P	P	P	E	O
Gasoline, Kerosene (Aliphatic Hydrocarbons) Resistance							
P to F	P to F	P to F	G	P to F	F	P	E
Heat Resistance							
G to E	E	G	E	E	G	G to E	O
Low Temperature Flexibility							
E	E	G to E	G	P	G	P to G	O
Nuclear Radiation Resistance							
G	G	G	F to F	F	G	P to G	O
Oil Resistance							
G to E	G to E	G to E	E	E	E	P	O
Oxidation Resistance							
E	E	E	E	E	E	E	O
Ozone Resistance							
E	E	E	E	E	E	E	E
Water Resistance							
E	E	E	P to F	E	P	E	E
Weather - Sun Resistance							
E	E	E	E	E	F to G	G to E	O

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

Above ratings are based on average performance of compounds. Any specific property can often be improved by the use of selection compounding.

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