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PROPERTIES OF WIRE INSULATIONS AND JACKETS

Material	Nom. Specific Gravity	Voltage Breakdown (Volts/Mil)	Abrasion Resistance	Nom. Dielec. Constant	Flame Retardant Properties	Flexibility	Weatherability	Nom. Temp. Range °C	Alcoholglycol	Gasoline	Trichloroethylene
Polyvinyl Chloride (PVC)	1.37	500	Good	5-8	Excellent	Good	Excellent	-55° - 105°	Poor	Poor	Fair
Polyethylene - Solid	0.95	600	Good	2.1	Poor	Fair	Excellent	-60° - 80°	Good	Good	Good
Polyethylene - Foam	0.50	n/a	Poor	1.5	Poor	Good	Excellent	-60° - 80°	Poor	Poor	Poor
Teflon® (FEP)	2.20	600	Excellent	2.1	Excellent	Fair	Excellent	-70° - 200°	Excellent	Excellent	Excellent
Teflon® (PFA)	2.14	2,000	Excellent	2.0	Excellent	Fair	Excellent	-70° - 260°	Excellent	Excellent	Excellent
Tefzel™	1.70	400	Excellent	2.7	Excellent	Fair	Excellent	-70° - 150°	Excellent	Excellent	Excellent
Nylon	1.07	450	Excellent	4.0	Poor	Poor	Excellent	-40° - 120°	Excellent	Good	Excellent
Polypropylene	0.91	650	Excellent	2.2	Poor	Poor	Excellent	-40° - 105°	Good	Good	Good
Polyurethane	1.10	500	Excellent	7.0	Poor	Excellent	Excellent	-50° - 80°	Good	Good	Good
Thermoplastic/ Elastomer (TPE)	1.00	650	Excellent	2.4	Good	Good	Excellent	-75° - 140°	Fair	Poor	Fair
Hytrel™	1.20	860	Excellent	6.0	Fair	Fair	Excellent	-50° - 105°	Good	Good	Good
Silicone	1.32	600	Fair	3.0	Fair	Excellent	Excellent	-65° - 200°	Good	Good	Fair
Fluorosilicone	1.40	350	Excellent	7.0	Excellent	Excellent	Excellent	-60° - 200°	Excellent	Excellent	Excellent