

REVTI ELECTRONICS INDUSTRIES

Properties of Insulating Materials

Properties of Insulating and Jacketing Materials

Material Type	Continuous Operating Temperature	Abrasion Resistance	Chemical Resistance	Moisture Resistance	Solvent Resistance	Flame Resistance
PE	176°F (80°C)	Good	Excellent	Excellent	Excellent	Poor
CPE	194°F (90°C)	Very Good	Excellent	Excellent	Excellent	Excellent
PVC	221°F (105°C)	Very Good	Very Good	Good	Fair	Excellent
TPE	257°F (125°C)	Excellent	Poor	Good	Good	Excellent
Nylon	250°F (121°C)	Excellent	Very Good	Fair	Good	Poor
ETFE	300°F (150°C)	Excellent	Excellent	Excellent	Excellent	Excellent
FEP	400°F (200°C)	Excellent	Excellent	Excellent	Excellent	Excellent
TE/D	400°F (200°C)	Excellent	Excellent	Excellent	Excellent	Excellent
PFA	500°F (260°C)	Excellent	Excellent	Excellent	Excellent	Excellent
PTFE	500°F (260°C)	Good	Excellent	Excellent	Excellent	Excellent
Polyimide	500°F (260°C)	Excellent	Excellent	Excellent	Good	Good
B-Fiber*	500°F (260°C)	Good	Good	Fair	Good	Good
G-Glass*	950°F (510°C)	Poor	Good	Good	Excellent	Excellent
Q-Glass*	1300°F (704°C)	Fair	Good	Good	Excellent	Excellent
HG	1800°F (982°C)	Poor	Good	Poor	Excellent	Excellent
CEFIR™	2200°F (1204°C)	Fair	Good	Fair	Excellent	Excellent

***Performance characteristics of fibrous products are improved with impregnation. Impregnation maintained to 400°F (200°C).**

Designations

PE	Polyethylene
CPE	Chlorinated Polyethylene
PVC	Polyvinyl Chloride
TPE	Thermoplastic Elastomer
Nylon	Polyamide Nylon 6
ETFE	Ethylene-Tetrafluoroethylene
FEP	Fluorinated Ethylene Propylene
TE/D	Fluorinated Ethylene Propylene
PFA	Perfluorinated-Tetrafluoroethylene
PTFE	Poly-Tetrafluoroethylene
Polyimide	Polyimide Tape
B-Fiber	Synthetic Polyamide Fibers
G-Glass	Braided or Served Fiberglass Yarn
Q-Glass	Braided Fiberglass Yarn
HG	Braided Vitreous Silica
CEFIR™	Braided Ceramic Fiber