

 	PVC				PP	PE		FEP	TPU	TPE		LSOH	
	General purpose	Semi-rigid heat resisting	Flexible heat resisting	Low temp	High-impact copolymer	General purpose	Cross-linked	All purpose	Sheathing only	Special pupose hard	Special purpose soft	General purpose	High temp & cross-linked
TEMPERATURE RESISTANCE													
Max cont op °C	70	105	105	70-105	80	70	90-105	200	90-120	120	135	70	125
Max overload °C	120	120	120	120	120	90	130	250	150	150	150	120	150
Max short circuit °C	150	150	150	150	150	110	250	250	160	160	160	150	160
Min flex duty °C	-20	-20	-20	-45	-40	-70	-70	-75	-40	-40	-45	-40	-45
ENVIRONMENTAL													
Ozone resistance	E	E	E	E	E	E	G	G	E	E	E	E	E
Corona resistance	E	E	E	E	P	P	P	P	P	P	P	P	P
Weather resistance	G	G	G	G	P	P	G/P	G	E	E	E	P	G
Oil resistance	G	G	G	E/G	F	F	G	E	E	E	E	F	G
Water resistance	G	G	G	E/G	G	G	G	E	E/G	E	G	G	G
Chemical resistance (general)	G	G	G	G	G	G	G	E	E/G	E	G	F	G
Solvents resistance	F	F	F	F	G	G	G	E	F	G	G	F	F
Abrasion resistance	F	G	G	G	E	G	F	E	E	E	G	F	G
Flame resistance	G/F	G/F	G	G/F	P	P	P	G	E	P	P	E	E
Zero halogen	NO	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
ELECTRICAL PERFORMANCE													
Insulation resistance	F	E	G	G	E	E	E/G	E	N/A	G	G	G	G
Voltage breakdown	G	G	G	G	G	E	G	G	N/A	G	G	G	G
AC losses	G	G	G	G	G	E	E/G	E	N/A	G	G	G	G

The above information is for general guidance only. Many different grades of material and additives are available so performance data can vary from that shown above. Our technical team will be pleased to offer advice on the best material solutions for your project/application.

KEY			
E	Excellent	G	Good
F	Fair		
P	Poor	N/A	Not applicable
PVC	Poly Vinyl Chloride	PP	Polypropylene
PE	Polyethylene	FEP	Flourinated Ethylene Propylene
TPU	Thermoplastic Polyurethane	TPE	Thermoplastic Elastomer
LSOH	Low Smoke Zero Halogen Compound		