

Physical & Mechanical
Abrasion resistance
Cold bend
Density
Elongation at break
Elongation at break (alt. test)
Flexibility
Mould growth
Sand & dust exposure
Temperature range
Tensile strength
Tensile strength at break

Test method	Conditions	Value
VG 95218/2	30% max wall thickness reduction	Pass
Internal	12 hrs at -40°C	Pass
ISO 1183	-	1.3 g/cm ³
IEC 60811-1-1	100mm/min	300%
VG 95218/2	200% min	>300%
VG 95218/2	Various	Pass
BS 2011 Part 2.1 J	28 days duration	Pass
DSP 07-55 Part 2	1 hr at 35°C Air velocity 95 km/hr	Pass
Internal	-	-50°C / +150°C
VG 95218/2	12.5 MPa min	>15 MPa
IEC 60811-1-1	100mm/min	17 MPa

Electrical
Volume resistivity

Test method	Conditions	Value
ASTM D257	20°C	3x 10 E12 ohms-cm

Flammability
Flame retardancy
Oxygen index
Thermal endurance
Thermal endurance (alt. test)

Test method	Conditions	Value
IEC 60332-1	Modified to meet the requirements of VG 95218/2	Pass
ASTM D2863	-	34%
IEC 60216	Duration: 10 000 hrs End condition: 50% min elongation	130°C
VG 95218/2	Min. 2 500 hrs at 150°C	Pass

Chemical
Chemical hardness (various agents & decontaminants)
Corrosion (acid)
Fluid contamination

Test method	Conditions	Value
DSP 08-41	-	Pass
VG 95218/2	24 hrs at 70°C: 30% max change of mass 8 MPa min tensile strength 150% min elongation at break	Pass Pass Pass
VG 95218/2	Various temperatures: 30% max change of mass 8 MPa min tensile strength 150% min elongation at break	Pass Pass Pass

Summary:

Flame retardant
Low smoke generation
Excellent for use in chemicals

Designed for use as:

Insulation

Standard equipment wires using this material:

*Hi-Flex 6, Hi-Flex 10, Hi-Flex 16, Hi-Flex 25, Hi-Flex 35, Hi-Flex 50, Hi-Flex 70, Hi-Flex 95, Hi-Flex 120, Hi-Flex 150, Hi-Flex 185, Hi-Flex 240
Hi-Flex 300, Hi-Flex 400*