

ETFE / Z

Intended for general use

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz 10 MHz	2.6 2.6
Dielectric strength	-	-	-
Dissipation factor	ASTM D 150	0.1 kHz 10 MHz	0.001 0.004
Volume resistivity	Internal	25 °C 90 °C	10 ¹⁶ Ω x cm 10 ¹⁶ Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.7 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	250 %
Hardness	ASTM D 2240	-	67 D
Radiation resistance	IEC 60544	-	10 ¹⁵ Gy
Tensile strength	IEC 60811-501	50 mm/min	> 35 MPa
Water absorption	ASTM D 570	25 °C	< 0.01 %

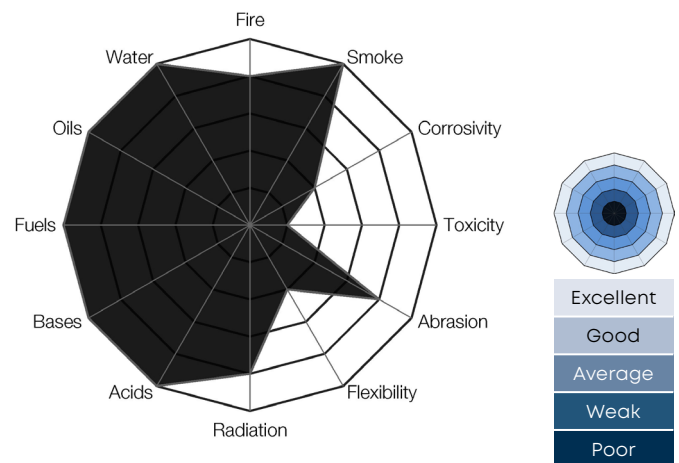
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	2.6 2700 μS/cm
Continuous temperature rating	EN 50306-2	20,000 hrs	+ 155 °C
Flammability	UL 94	1.6 mm	V-0
Flame propagation	IEC 60332-1-2	Dependent on cable design	Pass
Oxygen index	ASTM D 2863	-	31 %
Smoke density	ASTM E 662	Flaming Non-flaming	300 20
Smoke index	Def Stan 02-711	per m wire	1
Temperature index	Def Stan 02-715	-	290 °C
Toxicity index	Def Stan 02-713	per m wire	5

Properties

ETFE is a mechanically tough material which can be produced with very thin walls and yet is able to take an unusual amount of physical punishment. This along with its low friction properties make it suitable for applications requiring a long flex-life.

Although it is not halogen free, good electrical properties (almost constant over changing frequencies and temperatures), excellent all-round fire and chemical resistance and a broad operating temperature range all make ETFE ideal for use in a wide range of environments.

Important: Habia Cable has compiled the information contained herein from what it believes to be accurate and factual sources as of the date printed. Data is based on typical values and might vary depending on cable construction and processing method. Any changes in the data will be made without notification.



Available colours (shades may vary from material to material)



Characteristics and key properties

Intended use	Intended use	Intended use	Temp installation	Temp low	Temp >20,000 hrs	Temp peak
Insulation	Small / Inner sheath	Outer sheath	-100°C	-65°C	+155°C	+170°C

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