

FEP / K

Intended for general use

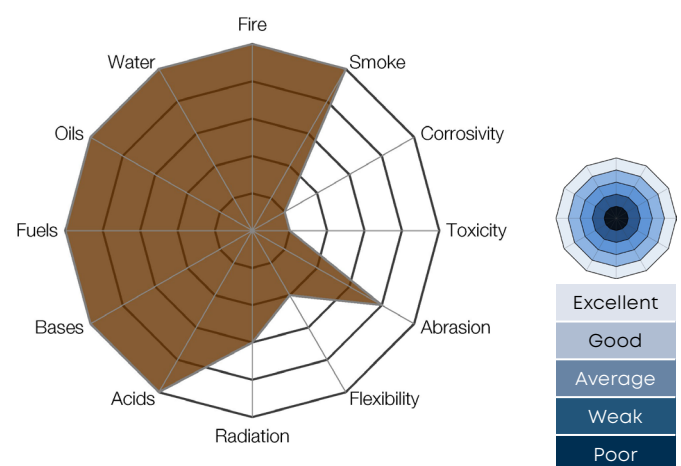
Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz 10 MHz	2.1 2.1
Dielectric strength	ASTM D 149	0.25 mm film 3.2 mm sheet	> 80 kV/mm 20 kV/mm
Dissipation factor	ASTM D 150	0.1 kHz 10 MHz	0.0002 0.0007
Volume resistivity	Internal	25 °C 90 °C	> 10 ¹⁶ Ω x cm 10 ¹⁶ Ω x cm
Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	2.15 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	200 %
Hardness	ASTM D 2240	-	55 D
Radiation resistance	IEC 60544	-	10 ⁴ Gy
Tensile strength	IEC 60811-501	50 mm/min	20 MPa
Water absorption	ASTM D 570	25 °C	< 0.01 %
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	2.3 3100 μS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 205 °C
Flammability	UL 94	1.6 mm	V-0
Flame propagation	-	-	-
Oxygen index	ASTM D 2863	-	93 %
Smoke density	ASTM E 662	Flaming Non-flaming	< 10 < 10
Smoke index	-	-	-
Temperature index	Def Stan 02-715	-	> 400 °C
Toxicity index	-	-	-

Properties

FEP is the softest and most flexible of the fluoropolymers. It is the preferred choice for long length requirements and with excellent electrical properties (stable over changing frequencies and temperatures), this makes it an ideal choice for use in data cables and coaxials.

Although it is not halogen free, excellent all-round fire and chemical resistance and a broad operating temperature range all make FEP 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					-200°C	-65°C	+205°C	+205°C

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