

PTFE

-200° +260° C

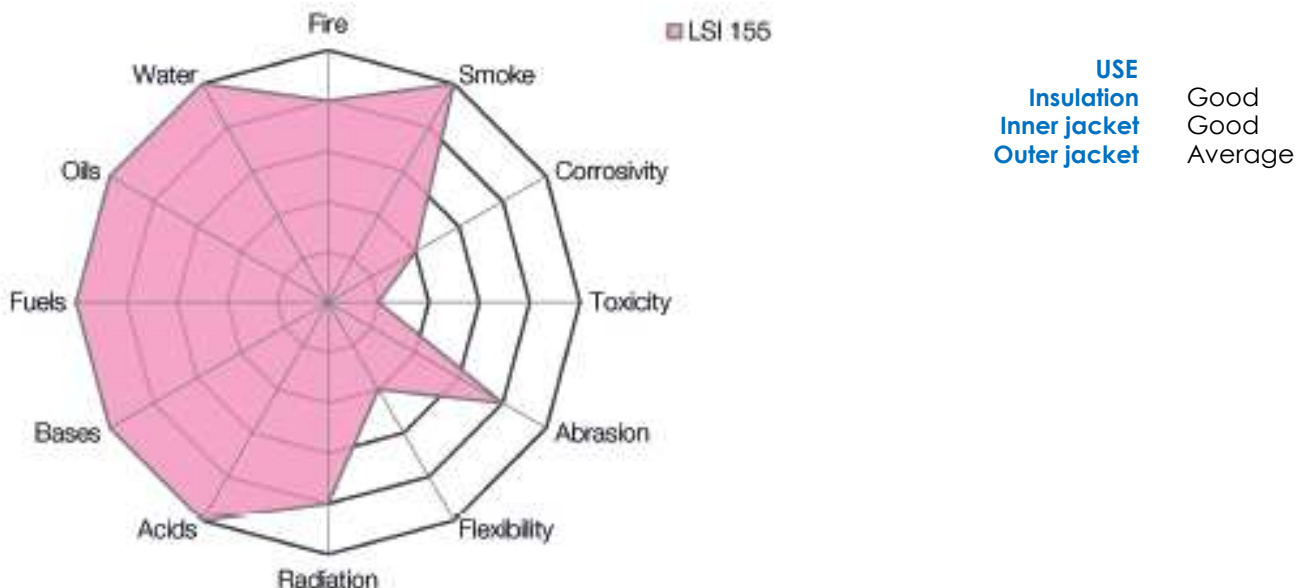
Polytetrafluoroethylene (PTFE) is a synthetic fluoropolymer of tetrafluoroethylene. PTFE is unique amongst the fluoropolymer materials as it processed by either cold ram-extrusion or tape-wrapping and is then sintered at high temperatures to set the material.

PTFE has the best electrical properties of any plastic material with a low dielectric constant of 2.1 that does not change with temperature or frequency. With very good chemical properties and excellent fluid resistance, only alkali metals and the most corrosive of chemicals under high pressures / temperatures will attack PTFE. Although it is a halogenated material, it is highly flame retardant and generates very little smoke under fire conditions.

Electrical

Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz	2.1
		100 MHz	2.1
Dielectric strength	ASTM D 149	0.38 mm	24 kV/mm
Dissipation factor	ASTM D 150	0.1 kHz	0.0001
		100 MHz	0.0002
Volume resistivity	Internal	90 °C	10 ¹⁶ Ω x cm

Application chart



Important: IMCAVI 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.

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