Habia Cable

TPS 100 / R

Intended for general use

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	100 Hz	4.8
Dielectric strength	IEC 60243-1	-	18 kV/mm
Dissipation factor	ASTM D 150	100 Hz	0.008
Volume resistivity	ASTM D 257	-	7 x 10^8 Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.2 g/cm^3
Elongation at break	IEC 60811-501	50 mm/min	500 %
Hardness	ISO R 868	-	40 D
Radiation resistance	IEC 60544	-	10^5 Gy
Tensile strength	IEC 60811-501	50 mm/min	30 MPa
Water absorption	ASTM D 570	24 hrs	0.6 %

Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity pH Conductivity	TPS 100: 3.7 TPS 100: 90 µS/cm TPS 100 FR: 3.1 TPS 100 FR: 350 µS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	TPS 100: + 95 °C TPS 100 FR: + 85 °C
Flammability	-	-	-
Flame propagation	IEC 60332-1-2	Dependent on cable design	TPS 100 FR: Pass
Oxygen index	ISO 4589-2	-	TPS 100: 20 % TP 100 FR: 26 %
Smoke density	-	-	-
Smoke index	-	-	-
Temperature index	-	-	-
Toxicity index	-	-	-

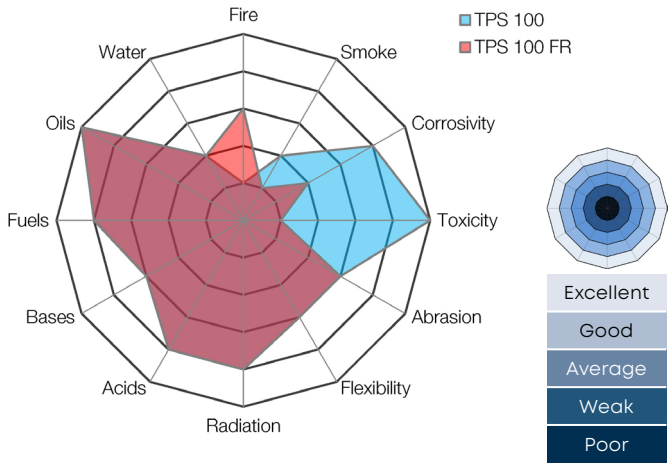
Properties

TPS 100 and TPS 100 FR are mechanically tough, general purpose sheath materials primarily used when oil and fuel resistance are key.

The material has a good memory and is ideal for use as a coiled cable sheath, particularly in lower temperatures.

The base material: TPS 100 is halogen free, however the addition of a flame retardant additive introduces halogens into to material as well as affecting some of the other key properties, for this reason TPS 100 should be considered a different material to TPS 100 FR.

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)											
Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White	Pink	Clear

Characteristics and key properties										
	Intended use Small / Inner sheath	Intended use Outer sheath					Temp installation -60°C	Temp low -60°C	Temp >20,000 hrs +85°C	Temp peak +100°C