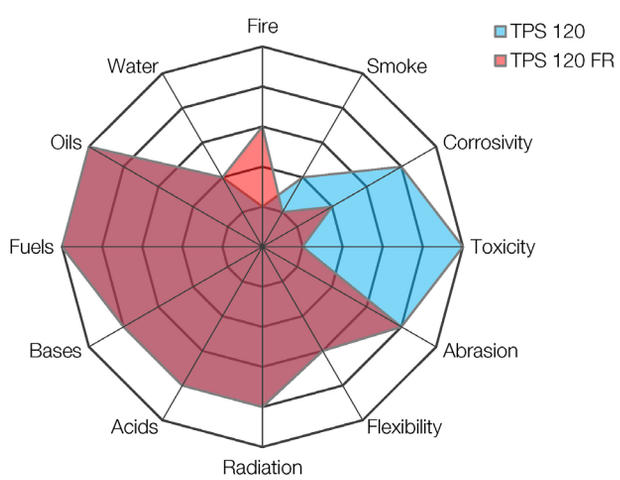
TPS 120 // R

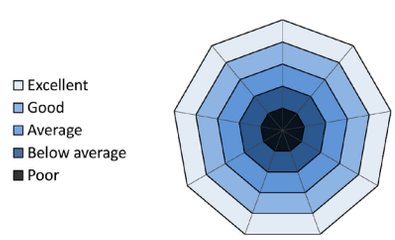
Intended for general use

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	100 Hz	4.2
Dielectric strength	ASTM D 149	-	15.8 kV/mm
Dissipation factor	ASTM D 150	100 Hz	0.007
Volume resistivity	ASTM D 257	-	3.1 x 10^9 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	ASTM D 2240	-	55 D
Radiation resistance	IEC 60544	-	10^5 Gy
Tensile strength	IEC 60811-501	50 mm/min	40 MPa
Water absorption	ISO 62	24 hrs	0.7 %

Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	-	-	-
Continuous temperature rating	IEC 60216	20,000 hrs	TPS 120: + 95 °C TPS 120 FR: + 85 °C
Flammability	-	-	-
Flame propagation	IEC 60332-1-2	Dependent on cable design	TPS 120 FR: Pass
Oxygen index	ASTM D 2863	-	TPS 120: 22 % TPS 120 FR: 26 %
Smoke density	-	-	-
Smoke index	Def Stan 02-711	-	70
Temperature index	-	-	-
Toxicity index	Def Stan 02-713	per 100 g	7





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

TPS 120 and TPS 120 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 120 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 120 should be considered a different material to TPS 120 FR.

+120°C
High temp

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.

Small / Inner sheath	Outer sheath	-60°C Low temp