

# MPR 105 // G

Intended for use in highly flexible applications

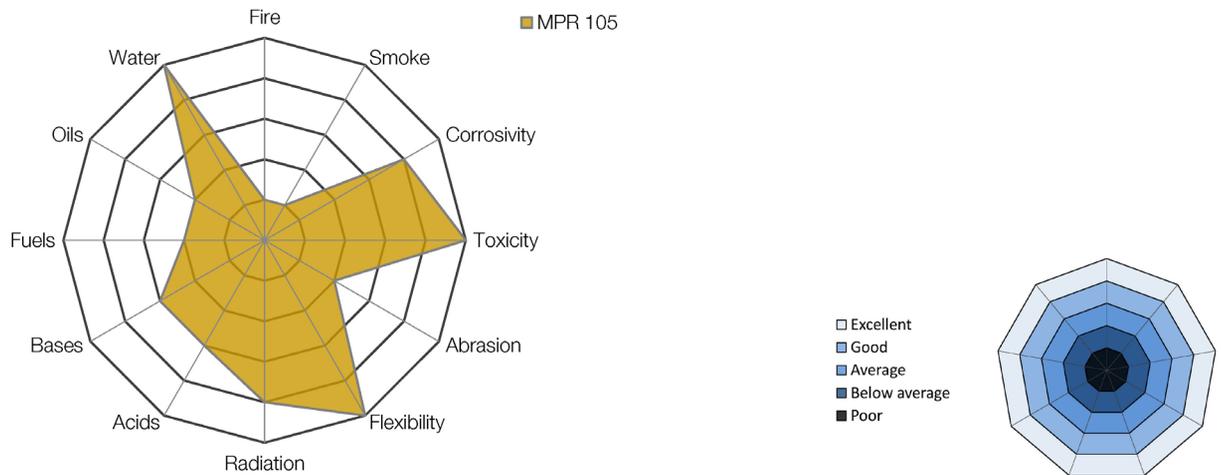
Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz	2.1
		10 MHz	2.1
Dielectric strength	-	-	-
Dissipation factor	ASTM D 150	0.1 kHz	0.0001
		10 MHz	0.0001
Volume resistivity	Internal	25 °C	10 <sup>16</sup> Ω x cm
		90 °C	10 <sup>14</sup> Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	0.9 g/cm <sup>3</sup>
Elongation at break	IEC 60811-501	50 mm/min	500 %
Hardness	ASTM D 2240	-	68 A
Radiation resistance	Internal	-	10 <sup>5</sup> Gy
Tensile strength	IEC 60811-501	50 mm/min	13 MPa
Water absorption	-	-	-

Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH	4.8
		Conductivity	10 μS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 125 °C
Flammability	-	-	-
Flame propagation	-	-	-
Oxygen index	ASTM D 2863	-	18 %
Smoke density	-	-	-
Smoke index	-	-	-
Temperature index	-	-	-
Toxicity index	-	-	-



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			
MPR 105 is a remarkable material that exhibits rubber-like performance, coupled with excellent electrical properties. It is highly flexible and ideal for use in dynamic applications provided that it is used with a sufficiently thick wall. MPR 105 is naturally halogen free, but not at all suited for use in fire. Despite this it has a remarkably wide temperature range. Similarly, it has only moderate chemical resistance but excellent water resistance.	Insulation	Small / Inner sheath	Outer sheath
	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.		

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