

## MPR 105 / G

Intended for use in highly flexible applications

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

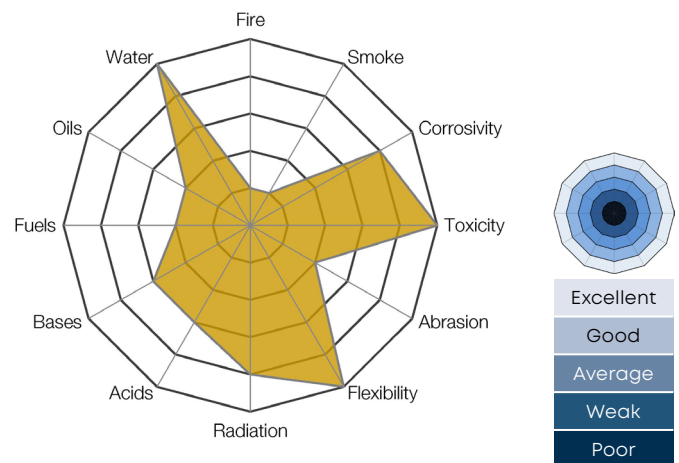
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	4.8 10 μS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 125 °C
Flammability	-	-	-
Flame propagation	-	-	-
Oxygen index	ASTM D 2863	-	18 %
Smoke density	-	-	-
Smoke index	-	-	-
Temperature index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

### 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 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.

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					-75°C	-75°C	+125°C	+125°C

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