

## HFI 90 L / P

Low density  
Intended for use as dielectric in coaxial cables

| Electrical          |             |                |                                                    |
|---------------------|-------------|----------------|----------------------------------------------------|
| Properties          | Method      | Conditions     | Value                                              |
| Dielectric constant | IEC 60250   | 1 MHz          | 2.29                                               |
| Dielectric strength | IEC 60243-1 | -              | 22 kV/mm                                           |
| Dissipation factor  | IEC 60250   | 1 MHz          | 0.00008                                            |
| Volume resistivity  | Internal    | 25 °C<br>90 °C | 10 <sup>16</sup> Ω x cm<br>10 <sup>15</sup> Ω x cm |

| Physical             |               |            |                        |
|----------------------|---------------|------------|------------------------|
| Properties           | Method        | Conditions | Value                  |
| Density              | ISO 1183      | -          | 0.92 g/cm <sup>3</sup> |
| Elongation at break  | IEC 60811-501 | 50 mm/min  | 600 %                  |
| Hardness             | ISO R 868     | 1 Sec      | 50 D                   |
| Radiation resistance | IEC 60544     | -          | 10 <sup>16</sup> Gy    |
| Tensile strength     | IEC 60811-501 | 50 mm/min  | 15 MPa                 |
| Water absorption     | -             | -          | -                      |

| Thermal                       |           |            |         |
|-------------------------------|-----------|------------|---------|
| Properties                    | Method    | Conditions | Value   |
| Combustion corrosivity        | -         | -          | -       |
| Continuous temperature rating | IEC 60216 | 20,000 hrs | + 70 °C |
| Flammability                  | -         | -          | -       |
| Flame propagation             | -         | -          | -       |
| Oxygen index                  | -         | -          | -       |
| Smoke density                 | -         | -          | -       |
| Smoke index                   | -         | -          | -       |
| Temperature index             | -         | -          | -       |
| Toxicity index                | -         | -          | -       |

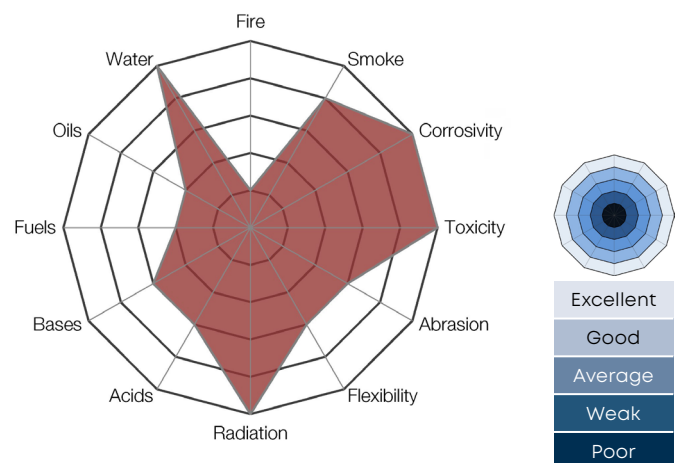
### Properties

HFI 90 L is a low cost insulation with very good mechanical and electrical properties making it ideal for use in data cables (twisted pairs and coaxials).

As one of the purest materials available, HFI 90 L is the preferred option for coaxial dielectrics. HFI 90 L is halogen free but is not flame retardant.

Although HFI 90 L has mixed chemical resistance properties, it is one of the best options for use in water.

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 | Insulation |  |  |  |  |  | Temp installation | Temp low | Temp >20,000 hrs | Temp peak |
|              |            |  |  |  |  |  | -60°C             | -60°C    | +70°C            | +90°C     |

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