



HFFR THERMOPLASTIC
FOR CABLES

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| Grade | Description | Classification | | | | Density ISO 1183 g/cm ³ | Hardness ISO 868 Shore D | Tensile Strength ISO 527 N/mm ² | Elongation at Break ISO 527 % | Oxygen Index ISO 4589 % | Melt flow index ISO 1133 g/10' | Volume Resistivity @ 20°C ASTM D 257 Ω.cm |
|-------------|--|-------------------|---------------------|--------------------|---------------------------------|--|--------------------------------|---|--|----------------------------------|---|---|
| | | EN 50363 | VDE 0207 0250 | BS 7655 | Others | | | | | | | |
| HF 211M | General purposes 70°C | M16 T16 | HM2 HM5 | LTS 1-3 | IEC 60092-SHF1 | 1,49 | 50 | ≥ 12 | ≥ 180 | 37 | 6,5 | 1 x 10 ¹⁵ |
| HF 233 | General purposes 70°C High fluidity | M16 T16 TM7 | HM2 HM5 | LTS 1-3 | IEC 60092-SHF1 IEC 60502-ST8 | 1,49 | 50 | ≥ 12 | ≥ 180 | 37 | 10 | 1 x 10 ¹⁵ |
| HF 235 | General purpose 80°C First price | M16 T16 TM7 | HM2 HM4 HM5 | LTS 1-3 | IEC 60092-SHF1 IEC 60502-ST8 | 1,56 | 50 | ≥ 12 | ≥ 170 | 34 | 6 | 1 x 10 ¹⁴ |
| HF 417 | General purposes 80°C | M1 M16 TM7 | HM4 HM5 | LTS 1-2- 3-4 | IEC 60502-ST8 | 1,5 | 50 | ≥ 12 | ≥ 180 | 40 | 3,5 | 1 x 10 ¹⁵ |
| HF 018/25 | General purposes 80°C High fluidity | M1 M16 | HM4 | LTS 2 | | 1,51 | 53 | ≥ 11 | ≥ 170 | 35 | 10 | 1 x 10 ¹⁵ |
| HF 239/3 | High flame retardancy suggested for CPR applications | M1 M16 | HM2 HM5 | | | 1,57 | 48 | ≥ 12 | ≥ 155 | 40 | 6,5 | 1 x 10 ¹⁵ |
| HF 241 | High flame retardancy suggested for CPR applications | M1 M16 T17 | HM2 HM5 | | | 1,56 | 49 | ≥ 11 | ≥ 160 | 46 | 5 | 5 x 10 ¹⁴ |
| HF 427 | Good stress crack resistance – armoured cables | M1 M16 | HM4 | LTS 1-3-4 | IEC 60502-ST8 | 1,48 | 49 | ≥ 13 | ≥ 200 | 35 | 4 | 5 x 10 ¹⁵ |
| HF 411M | General purposes 80°C Improved processing | M1 M16 | HM4 HI2 | LTS 1-3-4 | IEC 60502-ST8 | 1,49 | 52 | ≥ 14 | ≥ 190 | 40 | 4 | 5 x 10 ¹⁴ |
| HF 039/4H | High flexibility | T16 TM7 | HM2 | | | 1,39 | 41 | ≥ 11 | ≥ 260 | 34 | 13 | 1 x 10 ¹⁵ |
| HF 231F | High flexibility – bending resistance | M1 T16 TM7 | HM2 | | | 1,4 | 42 | ≥ 12 | ≥ 240 | 38 | 12 | 3 x 10 ¹⁵ |
| HF 045/16M | Easy processing Ultra thin insulation | M1 M16 | HM4 | LTS 2 | | 1,45 | 49 | ≥ 12,5 | ≥ 160 | 40 | 5 | 2 x 10 ¹⁵ |
| HF 219AR-UV | Rodent and termite resistant sheathing | M1 M16 | HM4 | LTS 1-2-4 | IEC 60502-ST8 | 1,49 | 51 | ≥ 11 | ≥ 190 | 40 | 4,5 | 6 x 10 ¹⁴ |
| HF 425HSD | Special char forming sheathing suggested for CPR applications | M1 M16 | HM5 | | IEC 60502-ST8 | 1,54 | 52 | ≥ 11 | ≥ 170 | 35 | 4 | 1 x 10 ¹⁵ |
| HF 098 | High flame retardancy and temperature index | M1 M16 | HM2 HM5 | LTS 1-3 | EN 50290-2-27 | 1,5 | 48 | ≥ 11 | ≥ 180 | 44 | 4 | 1 x 10 ¹⁵ |
| HF 079/4 | High flexibility - low temperature sheathing (-48°C) | TM7 T16 | HM2 | | IEC 60502-ST8 | 1,44 | 36 | ≥ 9,5 | ≥ 240 | 32 | 3 | 5 x 10 ¹⁴ |
| HFC 0108 | Bedding | | | | BS 7846 | 1,7 | 44 | | | 35 | 10 | > 10 ¹⁴ |
| HFC 0108/3 | Bedding high Oxygen index | | | | | 1,68 | 42 | | | 50 | 10 | > 10 ¹⁴ |
| HFC 0115/1 | Bedding for tandem extrusion | | | | | 1,9 | 31 | | | 55 ± 5 | 87 ± 5 | 1,5 x 10 ¹⁴ |

⚠ Notes

Hax is a range of thermoplastic, halogen free and flame retardant compounds based on polyolefines and specific mineral fillers. These grades can be used for insulation, sheathing and bedding of cables installed in environments where low flammability and low smoke emission during combustion is of vital importance.

⚙ Processing

These compounds have been designed for an easy processing, whilst maintaining good mechanical-thermal properties and a good oxygen index value. They can be processed using extruders with a low compression ratio or on standard PVC extruders, and within a temperature range of 100-180°C (unless else specified on product TDS)

📦 Storage

These compounds must be stored at ambient temperature (not exceeding 30°C) in closed and unbroken bags, in order to avoid exposure to sunlight and moisture. Long stocking time may negatively affect the quality of the material. Therefore they shall be used within 6 months from the compounding date. After this time it is necessary to dry the material before extrusion.

📦 Packaging

All compounds are available in 25 Kg. PE bags, big bags or oktabin of 1250 Kg. on wooden or plastic pallets.