



Benvic IBE S.L.

TECHNICAL DATA SHEET

HFI009

Product description

Halogen free and flame retardant thermoplastic isolation compound for LV cables.

HFI009 is based on polyolefin and flame retardant fillers. The fire resistant system contributes to reduce the smoke and corrosive gases emission without halogen hidric acids evolution.

In same designs It is possible to use in cables H07Z1-K Euroclase Cca-s1b,d1,a1.

Aplications:

LV cable isolation

HFI009 compound is designed to us in isolation with copper conductor.

Standards:

EN 50363-7 TI-7 and TI-6.

HFFR compound recommended to cables type H07Z1-K and agree with EN 60332-3-2 and EN 60332-1-2.

Physical properties

PROPERTIES	METHOD	UNIT	VALUE
Density	UNE EN ISO 1183	gr/cm3	1,57
Tensile Strength	UNE EN ISO 527	MPa	> 11
Elongation at break	UNE EN ISO 527	%	> 175
Hardness Shore D	UNE EN ISO 868		45
Mooney Viscosity ML (1+4)/140 °C	ASTM D1646	MU	48
Change in Tensile Strenght after (168 hours at 80 °C)	EN 60811	%	< 20
Change in Elongation at break after (168 hours at 80 °C)	EN 60811	%	< 20
Hot pressure test at 80 °C/k=0,6	EN 60811	%	< 50
MFI (150° / 21,6 Kg)	ISO1133	g/10'	3,8
Heat Shock at 150 °C	EN 60811		non break
Bending test at -25 °C	EN 60811		non break
Cold impact at 150 °C	EN 60811		non break
Elongation at break (-25 °C)	EN 60811	%	> 30

Burning properties

LOI	UNE-EN ISO 4589	%	39
Halogenhidric Acid Emision	IEC 60754-1	%	< 0,1
Corrosive gas in Smoke, pH	IEC 60754-2		4,3
Corrosive gas in Smoke. Conductivity	IEC 60754-2	µS/mm	2,5

Recommended temperatures profile

Feeding	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Melt
130-150	130-150	140-160	140-160	150-170	150-170	160-170

Additional information

Packaging:

Storage: dry and cool place. The packaging should be kept closed to prevent moisture absorption. It may be necessary to dehumidify if the packaging is opened or if it has been stored for a long period of time

Masterbatch color: EVA or PE base

Extrusion:

Standard extruders for thermoplastic materials. Low compression screw. L / D ratio: 24D-25D

Pre-drying: not necessary if storage recommendations are followed

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