



# BLS POLYMERS LIMITED

## Thermoplastic HFFR COMPOUND BLS HFFR 1072

### DESCRIPTION

**BLS HFFR 1072** is a thermoplastic halogen free flame retardant compound based on polyolefins, flame retardants, mineral fillers, smoke suppressants, specially formulated for use as insulation and sheathing of energy, telecom, signal and control cables where flame retardancy and low smoke emission during combustion are essential alongwith high extrusion line speed and no plate out. It can also be made suitable for thin wall insulation application for which the requirement should be indicated while placing order.

### Application

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**BLS HFFR 1072** is recommended for insulation and sheathing of energy, telecom, signal and control cables where low flame spread, low smoke emission, no plate out, during combustion are essential.

### Benefits

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**BLS HFFR 1072** provide very effective

- Halogen Free compound
- Good Flame Retardancy
- Low Smoke Emission
- Very low toxicity
- Good mechanical properties
- High line speed
- Easy processability
- Good chemical resistance
- Easy colourability
- RoHS Compliant
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### Processing

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**BLS HFFR 1072** has been designed for easy processing, while maintaining good mechanical, thermal properties and high LOI value.

**BLS HFFR 1072** can be processed in extruders with a low compression ratio meant for HFFR Compounds, PVC Compounds, PE Compounds and within a temperature range of 110 deg C to 150 deg C.

### Properties

Property	Test Method	Unit	Typical Value
Specific Gravity	ASTM D 792		1.49
Melt Flow Index(190deg C/21.6 kg)	ASTM D 1238	Gm/10min	11
Tensile Strength at Break	ASTM D 638	MPa	12.8
Elongation at Break	ASTM D 638	%	205
Variation of mechanical properties after ageing at 100° C for 7 days			
Tensile Strength at Break	ASTM D 638	%	9
Elongation at Break	ASTM D 638	%	12
Limiting Oxygen Index	ASTM D 2863	%	40
Temperature Index	ASTM D 2863	°C	320
Smoke Density Rating	ASTM D 2843		6
Halogen Acid Gas Generation	IEC 60754 - 1		N.D.

## **Storage**

BLS HFFR 1072 must be stored in ambient temperature ( not exceeding 35 degC) in a shaded area in sealed and intact bags to avoid exposure to sunlight and moisture. Long storing may affect the property of the compound and for this reason should be used within 3 months from the compounding date. It is better to dry the material before use.

## **Packing**

**BLS HFFR 1072** is available in 25 kg bags with liners. Other packaging is available on request.

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