

EGYSAFE HALOGEN FREE FLAME RETARDANT COMPOUND

EGYSAFE HB190001

EGYSAFE HB190001 is a zero halogen, low smoke, flame retardant thermoplastic compound, polyolefin based for Cable bedding application

EGYSAFE HB 190001 is characterized by Halogen free, Smoke and toxic gases low emission, Water solution low acidity and high oxygen index.

Typical Properties

Property	Unit	Value	Test Method
Specific Gravity	gm./cm ³	1.56±0.04	ASTM D 792
Melt Index at 21.6 kg & 150°C	gm/10min	3±2	ASTM D 1238
Tensile Strength at break	Mpa	≥5	IEC 811
Elongation at break	%	≥70	IEC 811
Limiting Oxygen Index	% O ₂	34	ASTM D 2863
Hot Pressure Test at 80°C	%	≤50	CEI 20-34
Halogen Content	%	0	IEC 754-2
Water Solution Smoke Acidity	pH	> 5.5	IEC 754-2
Volume Resistivity 23 °C	Ohm.cm	≥10 ¹⁴	ASTMD 257

Processing Techniques

EGYSAFE HB190001 can be processed in special halogen free extrusion line having the follow Indicative temperature profile and characteristic

L/D ratio	18 - 24
Compression ratio	1, 2 - 1, 5: 1
Tools	chromium plated
Extrusion temperature	Barrel 110 - 150°C
	Head 160°C
	Die 165°C
	Screw 60 - 70°C

Handling

EGYSAFE HB190001 can be processed with any special restriction compared with the Normal thermoplastic compounds generally used to the cable manufacturers.

Packaging

EGYSAFE HB190001 is available in the form of free flowing pellets and supplied in Moisture resistant sacks containing 25 kg
Boxes with a moisture resistant heat sealed liner containing 850 kg.

Stocking

No special restrictions are recognized for **EGYSAFE HB190001** if it is maintained in its original packing. We recommend preventing the direct sun light and storage it in a dry fresh area.

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