

## TECHNICAL INFORMATION



# RIGENERATO HAX NERO

June  
2014

THERMOPLASTIC HALOGEN FREE, FLAME RETARDANT AND LOW SMOKE EMISSION COMPOUND, FOR CABLE APPLICATIONS

### Description

Rigenerato HAX nero is a thermoplastic flame retardant black coloured compound, and halogen free on polyolefinic basis. It can be used for the production of energy, signal and control cables. Being made from recycled materials can only be used for the composition of substrates.

### Technical characteristics

Property	Test method	Unit	Typical Value
Density	ISO 1183	g/cm <sup>3</sup>	1.50 ± 0.1
Hardness at 15"	ISO 868	Shore D	50 ± 5
Tensile strength	ISO 527	N/mm <sup>2</sup>	≥ 10
Elongation at break	ISO 527	%	≥ 120
Oxygen Index	ISO 4589	% O <sub>2</sub>	38 ± 5
Hot pressure test at 80 °C	IEC 60811	%	< 50
Melt Flow Index (150 °C/21.6Kg)	ISO 1133	g/10 min	6 ± 3
Emission of Halogenidric acids	EN 50267-2-1/IEC 60754-1	%	< 0.5
Fluorine content	EN 60684-2	%	< 0.1
Conductivity	EN 50267-2-2/IEC 60754-2	µS/mm	< 10
pH	EN 50267-2-2/IEC 60754-2		> 4.3
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω·cm	> 10 <sup>14</sup>

The typical values reported in the table have been obtained from measurements made on extruded samples or pressed plates

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## Processing

This thermoplastic compound has been designed for an easy processing, whilst maintaining good mechanical-thermal properties, and a medium-high LOI value.

It can be processed using extruders with a low screw compression ratio (halogen free or PVC type), and with a temperature profile as that given below, which is however indicative, as it may depend on the equipment design adopted.

Zone 1	Zone 2	Zone 3	Zone 4	Collar	Head	Die
130 - 150	130 - 160	140 - 160	140 - 160	150 - 165	150 - 165	150 - 170

## Storage

The thermoplastic compound must be stored at ambient temperature (not exceeding 30°C) in closed and unbroken bags, in order to avoid exposure to sunlight and water absorption. Long stocking time may negatively affect the quality of the material. Therefore it shall be used within 3 months from the compounding date. After this deadline it's necessary to dry the material.

## Packaging

Rigenerato HAX nero is available in 25 Kg PE bags, big bags or octabins of 1250 Kg.  
Our technical service is at your disposal, for further information and assistance.

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