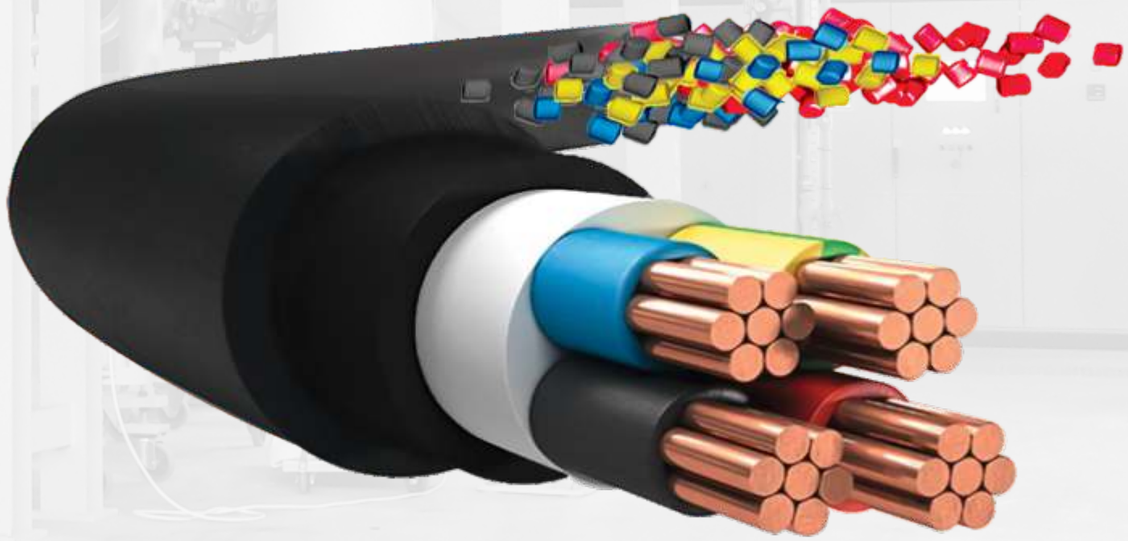
HALOGEN-FREE CABLE COMPOUND



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HALOGEN-FREE CABLE COMPOUND

The headquarters and production of the company is located in Ełk, in the land of the Great Masurian Lakes.In the area of the plant there are three production halls, warehouses, a research and development laboratory and a sales office. The company has a modern machine park, in the field of raw materials and equipment supply, it cooperates with global market leaders. Currently, it employs several dozen people.

At the beginning of 2017 the company expanded its offer for the cable industry to halogen free granulates (HFFR-AP). For this purpose in a newly built hall two modern production lines were launched with a capacity of up to 8,000 tons per year. In the middle of 2018 to highlight the changes PPH AGASTYL has changed its name to ESTI POLYMER.

The HFFR-AP pellets are produced from raw materials not containing chlorine, fluorine, bromine and iodine. Properties of the halogen-free plastic are modified, by adding flame retardants and agents to facilitate processing. During fire, such materials, in contrast to PVC, burn at higher temperatures, and the emitted gases are transparent, non-toxic and non-corrosive. The emitted fumes do not impede the evacuation, do not form compounds that might cause burns and corrosion in the equipment in combination with water. Halogen-free plastics meet the requirements of the new classification of cables – CPR, and are the best option in public facilities.

ESTI POLYMER produces halogen-free plastics with different properties, use to the extrusion of the insulation layer (T2), tyre layer (T1) and filler (T3) of cables. They can be processed on standard single-screw extruders designed for PVC pellets at temperatures from 140 °C to 180 °C. HFFR-AP pellets are available in natural colour (N) as well as in black (B), grey (G), red (R), blue (BE) and orange (O) in accordance with RAL.

Fully equipped research & development laboratory provides fine-grained control over the quality of manufactured materials as well as quick and precise preparation of pellets in accordance with the customers' needs.

Density	**PN-EN ISO 1183**	**g/cm^3**	**1,47÷1,80**
Hardness after 15 seconds	**PN-EN ISO 868**	**ShD**	**28÷53**
Melt flow rate MFI 150 °C/21.6 kg	**PN-EN ISO 1133**	**g/10 min**	**3,0÷14,0**
Tensile strength	**PN-EN ISO 37**	**MPa**	**7,5÷15**
Elongation at break	**PN-EN ISO 37**	**%**	**120÷300**
Oxygen index	**PN-EN ISO 4589**	**%**	**28÷55**
Transversal resistance at 20°C	**PN-EN 62631-1**	**Ω x cm**	**10^{13}÷10^{15}**