

Insulation and sheath materials

General information about the material SABIX®

SABIX® - thermoplastic material based on Polyolefin

This material has several outstanding characteristics. As registered trademark of SAB Bröckskes GmbH & Co. KG, SABIX® combines progressive cable technology with highest security for the user. When used properly, there is no health risk associated with SABIX®. SABIX® products are completely recyclable and can be reused after decomposition.

Standard halogen-free cables offer a large degree of safety to humans, nature, buildings and machinery, but do have a large disadvantage - they are often too inflexible to compete with PVC in all applications. This is not the case with SABIX®. SABIX® possesses several technical advantages compared with PVC.

The outstanding characteristics of the SABIX®-material types depending on the modifications are

- ◉ oil resistant acc. to VDE + EN
- ◉ flexible at low temperatures up to -40 °C
- ◉ heat resistant up to +125 °C
- ◉ suitable for outdoor application
- ◉ extremely flexible
- ◉ very good capacitance values
- ◉ fully recyclable
- ◉ low smoke density acc. to VDE, IEC, BS + EN
- ◉ flame retardant and self-extinguishing acc. to VDE, IEC + EN
- ◉ halogen-free acc. to VDE + IEC
- ◉ UL / CSA

Exemplary application fields

- ◉ **SABIX® single cores, wiring and multi core cables:** switchboard construction, devices of communication technique, household appliances, generators, transformers and machine construction, rail technique, ...
- ◉ **SABIX® control and connection cables:** automation technique, automobile industry, machine construction, rail technique, conveyor technique, industrial plant construction, steel and iron industry, refrigeration and air conditioning technology, car washes, truck hoists, supply cable between frequency converter and servo motor, ...
- ◉ **SABIX® data cables:** telecommunication technique, electronics for data processing systems, weighing devices, office machines, for increased requirements on transmission characteristics and crosstalk attenuation, ...
- ◉ **SABIX® Rail:** single cores, control and data cables for the internal wiring of rail vehicles acc. to DIN 45545-2, ...
- ◉ **SABIX® cables for ship building:** data cables, control cables, supply cable for flexible application lower deck as well as for the protected laying on deck of ships without permanent contact with oil and fuel.
- ◉ **SABIX® Ultra - permanent flexible with highest fire protection:** as festoon cables for polar cranes in nuclear power plants, in rail technique, as sensor cable at the vehicle chassis, as cable chain cable with medium mechanical stress, as flexible control cable at entry doors, ...