Soft polyvinyl chloride (soft PVC)

Soft PVC is made from polyvinyl chloride and plasticizers, as well as adjuvants such as stabilizers, lubricants, etc.

This particular material setting based soft PVC has a better elasticity, i.e., rubber-like soft rubber and has, in contrast to an increased aging and weather resistance, and increased slip resistance. The material is primarily for sealing purposes and can be used anywhere where it really matters, using elastic and resistant to weathering parts.

Polyvinyl chloride is one of the most widely used in manufacturing and processing plastics.

In the following we give the material properties:

- Ignition temperature: about 380° C
- Melting temperature of: about 160° C
- Tensile strength: about 60 kg/cm³
- Elongation: 350%
- Resilience: 25%
- Ozone resistance: free of cracks
- Heat resistance: no become of sticky and no waste
- Cold resistance: -40° C to still elastic, no breaking or bursting with bending and impact stress

Depending on the addition of plasticizer and Polyvinylchloridtype, colorless, transparent or translucent milky, toughened up weichgummiartige mass with a faint odor. With the help of certain colors, it is possible Weichpolyvinylchlorid stained in any color. The specific gravity varies with plasticizer content from 1.20 to 1.35 g/cm³.

Flammability:
Soft PVC is flame resistant and will disappear after withdrawal of acting flame. The flammability but increases with plasticizer content. For some purposes, the use of largely non-combustible, but less plasticizer Nonfreezing possible.

Behavior in the heat and the cold:
The higher the plasticizer content, the smaller is under mechanical stress, the heat resistance, the better, but the cold resistance. For special requirements, it is possible to use special cold-resistant plasticizer.

Behavior towards water:
Prolonged immersion in water is the water absorption depending on the type used 0.1 to about 1%.
**Mechanical and electrical properties:**
- Tensile strength: about 100 – 300 kg/cm³ (depending on the plasticizer content)
- Permittivity: about 3,6 – 7,5
- Dissipation factor: about 0.02 – 0.11
- Dielectric strength: about 20 KV/mm

**Behavior toward oxygen:**
Polyvinyl chloride and plasticized polyvinyl chloride is in contrast to rubber very resistant to aging, since there is no double bond in the molecule and provides the oxygen and ozone, the air does not attack possibilities.

This leaflet will advise you. The information given to the best of our knowledge. An obligation can not be derived therefrom.