Fiberglass Reinforced Polyester

**Thermal Conductivity:**
- k = 0,35 W/m²K sandwich design 80
- k = 0,75 W/m²K sandwich design 40
- k = 1,2 W/m²K sandwich design 20 mm
- k = 5 W/m²K single layer design

**Specific gravity**
1,46 g/cm³ according to DIN 53479

**Flexural strength at rupture**
220 N/mm² according to DIN 53452

**Impact strength**
140 KJ/m² according to DIN 53453

**Notch impact strength**
135 KJ/m² according to DIN 53453

**Compression strength**
200 N/mm² according to DIN 53454

**Dielectric strength (basic polyester)**
55 kV/mm according to DIN 53481

**Creep resistance (basic polyester)**
KC 600 according to DIN 53480

**Temperature Resistance**
(Permanent Resistance):
-60°C to +130°C (higher temperatures on request)

**Combustibility:**
Glow wire test proved at 700°C according to VDE 0471, Section 2/4.75;
Use of B1 materials according to DIN 4102, Part 1 upon request;
UL 94-V1 according to UL; other specifications on request

**Dimensional Stability Under Heat Stress According to Martens:**
200°C according to DIN 53458

**Tropical Test Conditions:**
According to CEI 68-2-3, resistant against mold and termite damage

**UV-Resistance:**
Xenotest 1000 hours with classification „stable“

**Electrical Surface Resistance:**
Standard \(10^{12}\) Ohm;
in explosion zone, surface resistance stability according to EN 60079-0
at less than \(10^9\) Ohm

**Decontaminability:**
Classification „Excellent“

**Waste Utilization:**
Household waste

Protection System According to EN 60529

**IP 54** for double door switchgear cabinets
- **Dust Protection:** The entry of dust is not completely prevented, however the amount is small enough that a satisfactory operating mode is maintained.
- **Protection against Water Spray:** Water, regardless from which direction it comes in contact with the housing, will not have any damaging effects. No water will enter.

**IP 65** for single door switchgear cabinets and protective boxes
- **Dust tight:** No entry of dust.
- **Protection against Water Spouting:** Water, regardless from which direction it comes in contact with the housing, will not have any damaging effects. No water will enter.
Scheme of Transport and Installation

**Lifting Eye Bolts**
- Stainless steel

**Series**
- **PV**
  - Max. laden weight: 100 kg
- **KS**
  - Max. laden weight: 300 kg
- **E, FS**
  - Max. laden weight: 800 kg

Max. laden weight with 4 lifting eye bolts and 4 strands of lifting rope, as shown.

Advice for transport with fork-lift

In most cases the bottom-frame of the cabinet has an insulation with PU-foam.

During transport and unloading the cabinet please take care that the insulation doesn't get damaged by the fork-lift.

The length of the forks must be longer than the depth of the cabinet, otherwise there is a chance of damage.

All transport-brackets must be taken up by the rope.

Rope must be tightened symmetrical.

Bearing of cabinet base frame on foundation all over.

1 = brackets for transport
500 kg per bracket
2 = Ropes
3 = tightener
4 = cross beam, hook distance:
width of cabinet + 200 mm
5 = foundation
6 = cross girder when width of cabinet is more than 2,50 m

The foundation must be erected by customer and the statics must be adjusted to the local requirement.