



KLJ POLYMERS & CHEMICALS LIMITED

SEMI-CONDUCTING COMPOUND

KLJ SC PX 835

Description:

KLJ SC PX 835 is a Semi Conducting cross-linkable insulation shielding strippable compound for medium voltage power cables. Further the material has very high resistance to scorch. It is easy to process and has low volume resistivity.

Specifications:

KLJ SC PX 835 meets the requirement of:

- IEC 60502

Properties:

| Properties | Test Method | Unit | Typical Value |
|--|------------------|-------------------|---------------|
| Density at 27°C | ASTM D 1505 | g/cm ³ | 1.15 |
| Tensile Strength | ASTM D 638 | MPa | 15 |
| Elongation | ASTM D 638 | % | 270 |
| Variation in Tensile Properties ,After ageing 168 hrs. at 121 Oc | ASTM D 638 | % | <25 |
| Hot Set @ 200°C, 20N/cm ² (max.) | IS 18010 Part-30 | % | 100 |
| Permanent Set after cooling (max.) | IS 18010 Part-30 | % | 5 |
| DC Volume Resistivity | ASTM D 257 | | |
| - at 23°C | | ohm-cm | <100 |
| - at 90°C | | ohm-cm | <1000 |
| Stripping Force | | N/cm | 10 – 45 |

Processing Guidelines:

Semiconducting KLJ SC PX 835 has been formulated to be easily extrudable using conventional polyethylene extrusion lines. For optimum extrusion result with KLJ SC PX 835 use melt extrusion temperature in the range of 90 - 105°C. Triple Cross Head 110°C & Connecting Flanges 110°C oC. Specific processing condition can be determined only by trials on individual equipment.

Semiconducting KLJ SC PX 835 absorbs moisture, which can result in porosity in the extrudate. It is therefore recommended that the compound be thoroughly dried prior to use, usually 2-4 hours in hopper drier at 40°C.

Shelf Life/Storage:

KLJ SC PX 835 can be stored for 6 months from date of manufacturing , without significant deterioration of the quality of material. However, it is recommended to be consumed as soon as possible.

KLJ SC PX 835 is recommended to be stored in a cool, dry & clean environment in unopened original packaging.

Packaging:

- KLJ SC PX 835 granules are packed in 450/500/600/875 kg in Aluminum liner and corrugated paper boxes.

Safety:

KLJ SC PX 835 are not classified as dangerous preparation.

The products are supplied in the form of free-flowing granules of approx. 2-3 mm size and can be readily handled with commercially available equipment. Handling and transport of the products may generate some dust and fines, which constitute a potential hazard for dust explosion. All metal parts in the system should therefore be properly grounded. Properly designed equipment and good housekeeping will reduce the risk. Inhalation of any type of dust should be avoided as it may cause irritation of the respiratory system.

The product is intended for industrial use only. MSDS is available on request.

Disclaimer:

- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- All properties are tested as per ASTM/IS/IEC standards.
- Any data may change without prior information.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing.