



## **Runfold Plastics Ltd.**

*Protection shrouds for substation and  
distribution lines*



### **Contact Details**

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**Runfold Plastics has, for 25 years, provided flexible mouldings for protection and insulation of asset in substations and line distribution against environmental conditions and wildlife.**

Network reliability for the electrical generating companies is a priority if they are to avoid high maintenance costs and dissatisfied customers through unplanned outages. Runfold Plastics has seen these problems and, with its unique in house dip moulding process and electrical formulated materials, we can prevent these costs that are caused by birds, vermin, blown debris and vandals. This can be done by the easy installation of custom profiled shrouds for all applications, from live terminations on pole and ground mounted distribution equipment.

## **Runfold Plastics Ltd electrical grades for overhead shrouds**

In order to meet the specification requirements for this industry we set about the task of listening to the customers from the utility generators and the equipment manufacturers. We ascertained what is required in terms of performance within the industry. The result was to provide materials that could provide a combination of electrical resistance, high temperature, fire retardant and long term UV exposure, as well as a product that was easy to assemble onto electrical equipment and be able to be removed for inspection.

### ***What are our Electrical Grades?***

To meet the long term UV exposure for outside applications our electrical grade has UV inhibitors which are used for marine products such as fenders which have been tested in areas such as Florida. The electrical resistance material formulation is based upon high temperature additives. The base material is PVC which has the flexibility for these applications.

## **Test method of the materials**

The requirement of these shrouds is to provide protection against stray pieces of debris, wildlife, most notably squirrels, and vandals. Therefore the test methods used are to simulate an exact condition that would be seen in the field of operation. One example test, is the resistance of our material for a potential large bird wing span across two busbar terminals. The resistance for such test has measured at 35 KV. (Copy certificate attached). Other tests and specific testing can be carried out in order to meet any customer's specific requirements. We are therefore able to offer reassurance to our customers that such conditions have been tested within the field of application.



## **Electrical grade of Materials Available**

### **Black 9**

A general purpose grade used for shrouding of cables.

### **Black 18**

A high temperature grade designed for low voltage areas.

### **Black 25**

A high temperature grade designed for low voltage areas with a 50 shore hardness. Fire retardant.

### **Red 27**

A High temperature bright red colour for busbar insulation and protection.

### **Grey 32**

A UV resistant grade designed for outdoor use and electrical resistance for a potential animal strike up to 35 KV. Fire retardant.

## **Application Areas**

- Outdoor terminations
- Transformers bushing
- Circuit Breakers
- Capacitors
- Bus Bar Systems
- Creepage extenders
- Booster Sheds
- Cable Joints
- Auto Reclosers
- Pole Mounted transformers
- Bellow Protectors

## **Product Profiles**

Due to the wide variety of equipment requirements, we have a comprehensive range of customised shrouds. For specific application requirements please contact us.

## **Benefits of using Runfold Insulation and Protection Shrouds**

- Dip moulding manufacturer.
- In-house tool room.
- 30 years experience supplying to the electrical market.
- Design service.
- Fast installation compared to insulation tape.
- Large range of existing shrouds
- Proven material application knowledge.
- Each part can be application tested to customers requirement.
- Shrouds are re-usable for inspection.
- Customised design.
- Excellent mechanical and chemical resistant properties.
- Fire retardant grades.
- No water traps compared to insulation tape.

**Typical applications of the Runfold Plastics Protection Shrouds**

