

PS-18

PVC TYPE A INSULATION COMPOUND

Description

PS 18 is Type A insulation compound conforming to IS 5831-1984 for wire and cable applications, suitable for house wiring, Power cables, instrumentation cables, Power cords etc.. and RoHs complainant.

Product Profile

PS 18 is a Non lead based PVC Compound consisting of carefully selected PVC Resins, Plasticizers, Stabilizers, Lubricants and other Additives. It exhibits good processing features along with good Physical and Mechanical properties.

Specifications

PS 18 compound meets IS 5831-1984 Type A Insulation

Salient Features

- Good flow properties resulting in smooth extrusion
- Good Physical and Mechanical properties
- Good Insulation properties
- RoHS Complainant

Technical Specifications Sheet

Properties	Test Method	Unit	Typical Value
a. Physical			
Density	ASTM D 792	gm/cc	1.38±0.02
b. Mechanical			
Hardness	ASTM D 2240	Shore A	88±2
Before Ageing			
Tensile strength (250mm/min)	ISO 10810 Part 7	N/mm ²	>13
Elongation at Break (250mm/min)	ISO 10810 Part 7	%	>200
Change of Properties after heat ageing(7 days at 80°C)			
Tensile strength (250mm/min)	ISO 10810 Part 11	%	±20
Elongation at Break (250mm/min)	ISO 10810 Part 11	%	±20
c. Thermal			
Thermal stability@200°C	ISO 10810 Part 60	Minutes	>100
Heat Shrinkage@150°C/15 mins	ISO 10810 Part 12	%	0.5 - 1
Loss of Mass in Air Oven @80°C for 7 days:			
Loss of Mass	ISO 10810 Part 10	mg/cm ²	1.0
Volume Resistivity @27°C	ASTM D 257	Ω-cm	1*10 ¹⁴
Volume Resistivity@70°C	ASTM D 257	Ωcm	2.5*10 ¹⁰

Processing parameters

PS-18 is an easy to process compound which can be processed on the standard PVC extruders. The recommended temperature for extruding PS 18 compound is in the range of 140°C to 180°C. Extra caution must be exerted to see that the processing temperature does not exceed beyond 200°C as this will result in degradation of the material. Pre-drying of the compound is recommended at 70°C for 2 hours to obtain smooth processing of the cable and attaining good surface finish on the cable.

Color Options

It is recommended to use 2% to 4% of PVC compatible Color Masterbatch. Choosing the right grade of masterbatch is important as it should not affect the properties of the end product.

Packaging, Storage & Transport

Package	Net Weight 25 kgs	PP Laminated Bags
Transport	Requirement	Keep away from the sunshine, rain & soaking during transport, as well as handle gently while carrying.
Storage	Environment	Clean, dry and ventilated ware house.

Technical Assistance

Our technical team will be available for assistance on request.

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Disclaimer

The above mentioned recommendations are derived after various trials and checks conducted under different conditions. It is advised that the above stated information must be used as guidelines only. We suggest that the customer conducts their own trials and arrive at the optimum processing parameters which are best suited for their equipment and processing conditions. Sankhla does not take any responsibility for any sort of loss arising due to improper handling or usage of materials supplied.

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