



Moulding Imagination



HYDERABAD - INDIA

Asia's Largest Vinyl Dip Moulding Facility

ABOUT US

PROFILE

Vin Dip India Private Limited is the largest dip moulding facility in Asia dedicated to design and supply of Electrical, Electronic & Wiring harness insulation solutions. The company has vast experience in dip moulding since 1998 & served different industrial segments ranging from Automobile to Switchgear. Vin Dip presently has four manufacturing & four ware house facilities spread across India with an aggregate space of 150000 sq ft.

The company has developed over 3000 dip molded parts till date and broadening the count by over hundred parts every year. Our manufacturing facilities are certified by ISO 9001:2015 QMS, ISO 14001:2015 EMS & all our products are manufactured in compliance with RoHS & REACH norms. The company is honored with several awards and recognitions, which bear testimony to our commitment towards operational excellence. We have over a thousand satisfied clients spread all over the globe and we are a trusted and approved supplier to many Switchgear and Automobile OEM companies.

The company has state of the art in-house design, tool room and testing facilities managed and supported by our team of engineers who deliver the best possible services.

OUR VISION

To Enhance the current resources in order to influence the world dip Moulding component buyers and become their preferred partners.

OUR MISSION

- Enhance the process capabilities, controls and compliance.
- Ensure good exposure and reach prospective clients worldwide.
- Empower the employees to ensure performance and service improvement
- Effectively control the impact on environment.



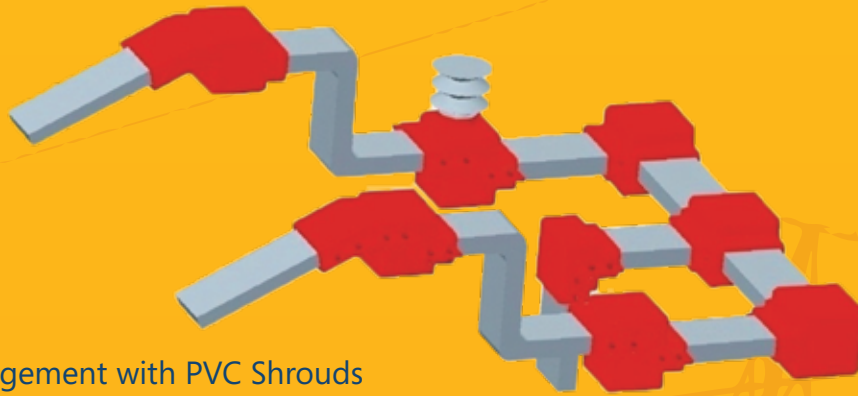
CUSTOM MOULDINGS

Vin Dip offers custom mouldings ahead of your imagination. Flexible PVC casings and covers can be supplied with in a very short period and with required properties like hardness, finish and colour. Very intricate profiles can also be developed in a very aesthetic way. Do not get surprised to receive samples some times in 24-48hrs due to low cost involved in tooling activity and high speed dip moulding process.

Vin Dip also offers double dipped sleeves and caps that will allow you to have two colours in the same product. Finish of the product can be glossy, matte & foam. In case of high volumes colour customization and branding is offered.



SWITCHGEAR INSULATION SHROUDS / BOOTS



Typical Busbar Arrangement with PVC Shrouds



Salient Features of Bus Bar Joint Shrouds

- Promotes electrical safety and helps prevent voltage related injuries.
- Provides significant reduction in air clearances.
- Cost effective solution to time consuming insulation taping.
- 100's of standard Variants and 1000's of customized designs.
- Easily mountable & Re-usable.
- Flame retardant UL94/VO.
- High dielectric strength.
- Wide working temperature range (-40°C to 105°C)
- Choice of Colour



Shroud thickness recommended as per voltage Rating

Voltage Rating(kV)	Minimum thickness(mm)
5	1.5
11	2.2
22	3.3
33	4.0
36	4.5

SWITCHGEAR INSULATION SHROUDS / BOOTS

Vin Dip a pioneer & a leader in providing busbar shrouds and cable gland shrouds to the Indian market. These Boots/shrouds are manufactured through dip moulding process & we're a trusted supplier of these boots to both domestic and global OEM switchgear Companies.

Busbar joint Shrouds/Boots are protective flexible PVC covers that will aid in insulating switchgear and busbar joints /connections. These shrouds will help in avoiding taping, which is laborious, time consuming and expensive. People who work around high voltage switchgear are also safer and more productive when busbar insulator shrouds are installed.

These shrouds are made from polyvinyl chloride material and are formulated especially for electrical applications at high voltages up to 36 KV.









Cable Gland Shrouds

Protection of metallic cable glands from damage, dust & corrosion is also an area of concern and our PVC cable gland shrouds provide an instant solution to these problems with more aesthetic and apt functional advantages.



Control Panel with Shrouds



STANDARD BUSBAR JOINTS		
	Without Boots/Shrouds	With Boots/Shrouds
T-JOINT →		
L-JOINT →		
STRAIGHT-JOINT →		
ELBOW-JOINT →		

WILD LIFE OUTAGE PROTECTION PRODUCTS



A CLUSTER OF OUTAGE PROTECTORS / OUTDOOR BOOTS



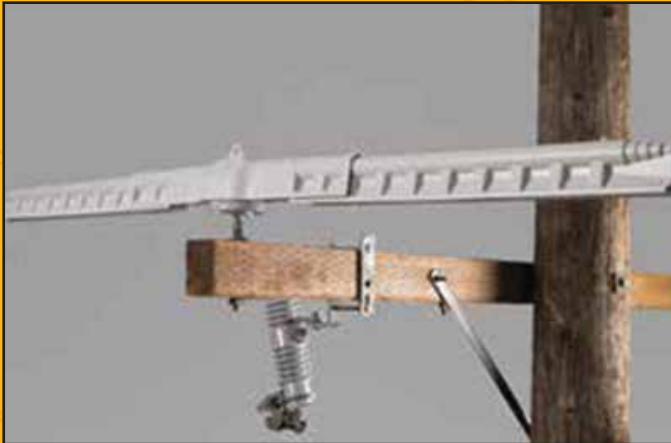
Interventions from wildlife is one of the leading causes of service interruptions, it can result in costly outages, reduction in reliability and harm to wildlife.

Vin Dip's Wildlife outage protectors are crafted to excellence to handle harsh atmospheric and animal related outages throughout transmission, substations and distribution network. These protection covers for outdoor termination are used to cover live connections or parts in order to reduce the outages caused by bird and animal wildlife.

Vin Dip's outage protectors are made from UV stabilized plastisol compound with high dielectric strength. The following are a few application areas where these protection covers are used

- Lighting arrestors
- Transformer bushings
- Capacitors
- Switching equipment

WILD LIFE OUTAGE PROTECTION PRODUCTS



**PRODUCT THICKNESS RECOMMENDED
AS PER VOLTAGE RATING**

Voltage Rating(kV)	Minimum thickness(mm)
5	1.5
11	2.2
22	3.3
33	4.0
36	4.5



Advantages

- Compliance with regulatory laws
- Will reduce disruption from wild life
- Will reduce power outages
- Asset protection from wildlife damage
- Will help lineman in identifying fault locations easily
- Increase in power quality metrics

Salient Features of wildlife Outage protectors

- Protects against unwanted animal and bird caused outages
- Cost effective solution to all wildlife outage issues
- UV Resistant
- Light weight
- Fire and Flame Resistant UL94/VO
- Can be easily Installed and Reusable
- High insulation factors
- Choice of colours
- Excellent weathering properties
- Wide variety of standard models & Can be customised
- Wide working temperatures (- 40°C to 105°C)

HANDLE GRIPS

Vin Dip offers rich range of Handle grips, which can provide solution for almost any handle grip application. We offer grip covers in different textures like, glossy, foam and matte finish and you also have an option to choose size, shape and colour as well. With nearly 2 decades of experience we can also customise them in a jiffy. Our design team will work on your requirement to provide exact shape grip cover with required texture and colour and we can also emboss your company logo and name on it provided the volumes are high.



Application

- Tool handle grips.
- Gym grips.
- Surgical equipment grips.
- Two-wheeler handle grips.
- Machine handle bar grips
- Walker Grips



BELLOWS

Vin Dip offers PVC flexible bellows as per industry standards and these bear excellent expansion and compression capabilities. Wide varieties of bellows are available to choose from and these can also be custom made with required texture, colour and shape. These bellows are normally used in switch gear and transformer industry for cable ducting and they are also extensively used in automobile industry for various applications.



Application

- Automobile industry: Protects gear rod in automobiles from dirt and dust.
- Electrical industry: For insulation and protection against corrosion.
- To cover moving parts in a machine



VINYL CAPS



Vin Dip offers wide variety of vinyl caps that can be used for different applications. We have readily available moulds to produce vinyl caps from **1.5mm to 400mm** diameter and can also be custom made to suit individual's requirement in different sizes and shapes. These caps are glossy, flexible, attractive and unbreakable in nature. Vin Dip offers numerous plastisol formulations to suit wide range of custom applications like colour, texture, thermal, chemical and electrical properties.

Application

- Protection
- Branding
- Identification
- Masking during painting, plating and surface finishing.
- To cover sharp edges of surgical and stationary articles.
- To shield expensive tool tips from damage.
- Rods, pipe's and bolt end caps.
- Dust and moisture barriers.
- Spark plug tip protectors.
- Thread protectors.
- Tube ends caps.
- Flange covers.
- Insulators



WIRING HARNESS INSULATIONS

Vin Dip manufactures Flexible PVC terminal insulations through dip molding process. Almost all standard ranges are available for automobile, electronic appliances and other segments. These dip moulded transparent and opaque insulations are glossy, flash free and can be made to any specification. Any volumes can be produced with in a short span of time. Based on their area of application they are broadly categorized as below

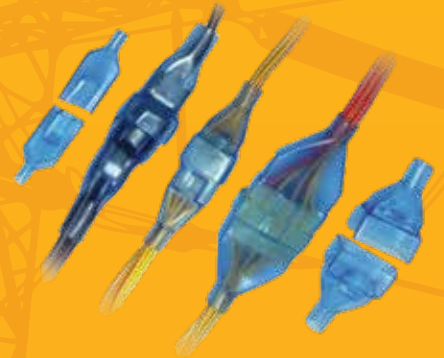


Terminal Insulation Sleeves

Terminal Sleeves are made for all series i.e. 90,105,210 etc and also for different wire sizes and terminal shapes (Round, Flat, L-Shape). Vin Dip sleeves are known for the transparency and accuracy.

Connector Covers

Connector Covers are available for every series and all number of poles. These covers ensure apt fitment and perfect water / dust / moisture proofing for continuous uninterrupted power supply. We developed the formulation to provide highest transparency possible in our connector covers.



Battery Terminal Covers

Battery Caps have been designed for every major battery terminals with different cable sizes and have excellent fire retardancy. Our extensive experience in plastisol formulation guarantees precise balance between physical, mechanical and electrical properties to give an extended life to battery terminals and their insulations.



Coupler Covers

Coupler Covers are manufactured in all standard sizes and diameters for every harness, providing best dust proofing and coupling for all your valuable terminals and connectors. Our coupler covers have excellent glossy finish and elasticity required for mounting.



OUR COMPETITIVE ADVANTAGES:

- In-house design, formulation and testing facilities
- Rapid prototyping
- Fast turnaround time
- REACH/RoHS compliance
- ISO 9001: 2015 QMS
- ISO 14001: 2015 EMS
- 150000 sqft dip moulding facilities
- 26 Dip moulding machines
- Qualified and vibrant team
- Expertise of > 3000 developed parts
- 18 years of uncompromised service
- More than 1000 satisfied customers
- OEM Approved

PROCESS CAPABILITIES	
Attributes	Range
Material	LPVC/Plastisol
Component Weight	0.2 gm – 10 Kg
Component Thickness	0.4mm - 8.0mm
Dimensions in mm	Length 2 - 400
	Height 2 - 400
	Width 2 - 400
	Diameter 2 - 400
Colours	Any
Finish	Glossy, Matt & Foam
Lead Time : Days	Samples 3 - 5
	Trial Lot 15 - 20
	Supply 15 - 30

MATERIAL PROPERTIES	
Electrical Properties	Dielectric Strength: 5~15kV/mm
	Volume Resistivity: $1 \times 10^9 \sim 1 \times 10^{13}$ ohms -Cm
	Comparative tracking strength: >600 V
Mechanical Properties	Tensile Strength :6.3~12.5MPa
	Elongation : 300~500%
	Hardness : 60 -85 Shore A
Thermal Properties	Thermal Stability : 105°C
	Cold Resistance : -40°C
Chemical Properties	Water Absorption <0.7%
	Flammability - Self Extinguishing (UL-94 Compliant)
Thermal Analysis	Thermal Rating by Thermogravimetric Analysis (TGA)=111 C





Vinyl Caps



Battery Terminal Covers



Handle Grips



Connector Covers



Bellows



Custom Mouldings



Switch Gear and Busbar Shrouds



Wildlife Outage Protectors



Terminal Sleeves



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