

POWER



SWITCHGEAR



AUTOMOBILES



**HARDWARE
& TOOLS**



AMAR INDUSTRIES™

Specialized In PVC DIP Moulding



www.amarind.net



AN ISO 9001: 2008 CERTIFIED COMPANY

THE COMPANY

Amar Industries is an independent Family owned company.

Amar Industries is managed by entrepreneurs and professionals rich in experience for Designing, Developing and Manufacturing **PVC DIP MOULDING PRODUCTS**.

Amar Industries is based on the pillars of its strong objective and best utilization of skills by mapping the best policies & process on work place.

THE PRODUCTS

Amar Industries manufactures and distributes complete range of **PVC Dip Moulding Products** for-

- ◆ Power Control Systems
- ◆ Telecom Industry
- ◆ Sanitary & Domestic Hardware Industry
- ◆ Automobile Industry, &
- ◆ Specific Customer Requirements

PROPERTIES

The insulation properties of PVC are extremely good and the material is used extensively throughout the domestic ancillary and power electrical related industries. Generally, a 1.0mm thickness of PVC dip molded sheet will offer the electrical resistance of min. 7.2Kv under test condition. These approves that the material is completely cured and free of pin holes

Special fire retardant formulations are available that give a higher Voltage resistance figure regardless of wall thickness. The splash resistances too many acids, alkalis and detergents are also very high and again special purpose grades are available for certain applications such as:-

Oil resistant, Food grade & Toy grade.

Medical grade, UV stable and high temperature to name, but a few.

As with most plastics, solvent contact should be avoided.

General purpose grade working temperature is -40c to 1 20c.

A wide range of standard colors choice is available. Alternative finishes to that of the standard high gloss are also available with matt and texture finishes becoming quite common.

VISION

AMAR INDUSTRIES visualizes the expansion of it's operations by improving our product range with incorporation of the latest technology, judicious investments and market development so that we are recognized as the leaders in dip moulding, offering value for money, products which are competitive in price and quality; globally.

OUR COMMITMENT

AMAR INDUSTRIES is committed to meet the needs of customers.

We offer our customers maximum benefits through customized solutions like:

- ✓ Prompt service
- ✓ Excellent quality
- ✓ Competitive prices
- ✓ Quick deliveries
- ✓ Customer Friendly
- ✓ Flexibility in Management

WE ARE COMMITTED

To operate the company on sound financial basis, increasing value to our stakeholders, creating rich and challenging career opportunities and financial rewards for our employees. We shall create a workplace that encourages innovation and teamwork, open communication, skill improvement and be result oriented and accountable in our actions.

QUALITY POLICY

We at, **AMAR INDUSTRIES** shall strive hard to produce quality products by

QUALITY ASSURANCE

AMAR INDUSTRIES strives to give quality products which exceed the expectations and ensure complete satisfaction of the esteemed customers on a continuous and regular monitored basis. Amar Industries quality system has already been accredited ISO 9001:2008 certification by ASCB (E).

MISSION STATEMENT

We are moving ahead with the mission that '**AMAR INDUSTRIES**' will prove to be a better source of newer strategies required due to changed industrial environment to all its esteemed customers. In the near future, our sole aim is to be the first and last name to rely upon, when it comes to quality PVC dip Moulding. Thus expansion of the business in the nearing years is our prime motive.

WE ARE DEDICATED

To be the leader in delivering value added products to the customers we serve by providing:

- ✓ Consistent Quality,
- ✓ Product innovation
- ✓ On time delivery
- ✓ for a reasonable and affordable

cost.

WE WILL STRIVE

To continuously improve and customize our product lines to create unique products, distribute and sell the finest quality Dip Moulding PVC Products to enhance customer requirements. Emphasis is centered on our effort towards constantly improving our processes and formulations, conduct research and development on product application and improving human resources through training and up gradation of skills.

OUR KEY TO SUCCESS

- ✓ Increased Customer satisfaction
- ✓ Increased Competitiveness
- ✓ Increased Efficiency
- ✓ Better Use of Time and Resources
- ✓ Cost Saving, Reduced Wastage of resources
- ✓ Highly Motivated & Skilled Employees

OUR CLIENTELE LIST INCLUDES

SWITCHGEAR MANUFACTURING COMPANIES

LARSEN & TOUBRO LTD.

GE

SIEMENS LTD.

SCHNEIDER ELECTRIC

SCHNEIDER ELECTRIC INFRASTRUCTURE LTD.

SCHNEIDER ENERGY INDUSTRIES

KIRLOSKAR ELECTRIC COMPANY LTD.

JYOTI LTD.

STELMEC LTD.

POPULAR SWITCHGEAR PVT. LTD.

PRISTINE ENGINEERS PVT. LTD.

ELECTROTHERM INDIA LTD. (AUTO DIVISION)

PRIME ENGINEERING (DELHI)

MARUDHAR ELECTRIALS (BENGALURU)

PESHAVARIA EXPORTS PVT. LTD.

ATLAS GROUP OF COMPANIES.

AKSHAR GROUP COMPANIES

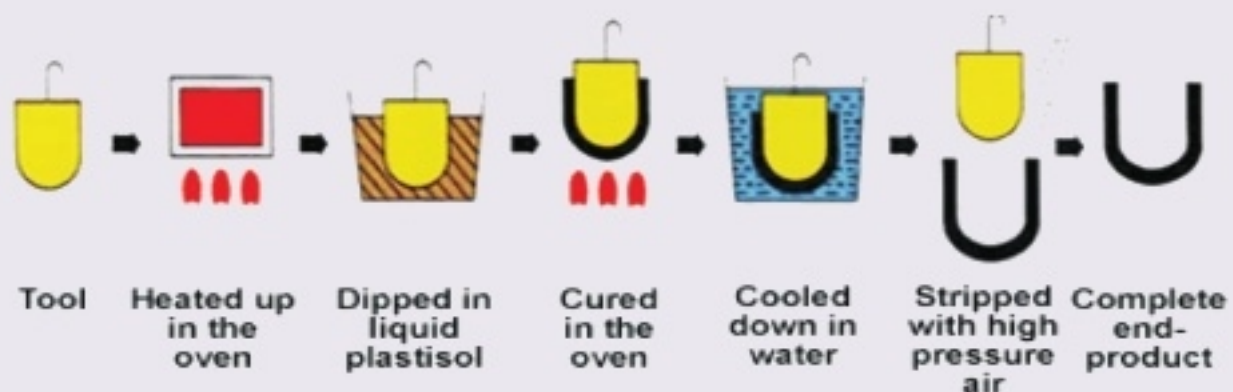
M.S.S INDIA

PROCESS OF PVC DIP MOULDING.

Dip moulding is a method to produce flexible thermoplastic products at low costs. The used material (poly vinyl) is very suitable to make complex shapes in various colours. Dip moulding is also very interesting for small and medium quantities. To make a special dip molded part, we first have to make a special tool (the male mould only) that will form the inside of the moulding. Generally, the aluminum moulds are used, fabricated or machined as per design requirement.

All moulds (tool) will be bared up on a special frame and preheated before dipped into the liquid Plastisol compound. Depending on the heat of the tool and the dipping time you will get a certain wall-thickness. A wall-thickness from 0.5mm up to 7.0mm can be achieved.

After dipping, the frame will go into the second oven for curing the dipped products. After cooling down all products and the moulds in a water tank the dipped products are stripped down from the moulds using high pressure air (compressed air).



Test Certificate - Electrical

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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TEST REPORT		SHEET 1 of 2	
NAME & ADDRESS OF CUSTOMER Amar Industries 2, Sarvodaya Industrial Estate, Mu. : Khatamba, Po. Anahol, Waghodia Chokadi, Vadodra.	REPORT No.	ISDEW00813036-3	
	DATE	10-5-2011	
	CUSTOMER REF No	NI	
	DATED	23-3-2011	
SAMPLE DESCRIPTION PVC Dip Molded Insulating Material in sheet form of 2mm, 4 mm and 6 mm thickness	DATE OF SAMPLE RECEIPT	DATE OF TESTING	
	23-3-2011	24-3-2011 to 25-3-2011	
SAMPLE IDENTIFICATION		ERDA Sample Code No. : ISDEW00813036	
TEST DETAILS		TEST SPECIFICATION	
Sr. Test particulars No			
1 Dielectric strength	ASTM D 149-2009		
2 Volume resistivity	ASTM D 257-2007		
PREPARED BY <i>A. N. R.</i>		CHECKED BY <i>[Signature]</i>	APPROVED BY <i>[Signature]</i>
NOTE: 1. This report relates only to the particular sample received for testing in good condition at ERDA. 2. This report cannot be reproduced in part under any circumstances. 3. Publication of this report requires prior permission in writing from ERDA. 4. Only the test asked for by the party has been carried out.			



REPORT No: ISDEW00813036-3		DATE: 10-5-2011		SHEET 2 of 2	
Sr. No.	Particulars of tests & Cl. No.	Requirements as per specification*	Obtained value	Remarks	
1.	Dielectric strength, ac (Short Time test) in oil at 27°C, kV/mm	Min. 7	11.7	Conforms	
2	Volume resistivity in air at 25°C, Ohm-cm Applied Voltage : 500 V DC Electrification time : 60 Sec	Min 10 ¹²	>10 ¹⁴	Conforms	
*requirement value as specified by the customer.					
PREPARED BY <i>[Signature]</i>		CHECKED BY <i>[Signature]</i>			



0628278

0628279

Test Certificate - Thermal

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TEST REPORT		SHEET 1 of 2	
NAME & ADDRESS OF CUSTOMER Amar Industries 2, Sarvodaya Industrial Estate, Mu. : Khatamba, Po. Ankol, Waghodia Chokadi, Vadodra.	REPORT No DATE	ISDEW00813036-2 10-5-2011	
	CUSTOMER REF No DATED	Nil 23-3-2011	
	DATE OF SAMPLE RECEIPT	DATE OF TESTING 23-3-2011 to 31-3-2011	
	SAMPLE DESCRIPTION PVC Dip Molded Insulating Material in sheet form of 2mm, 4 mm and 6 mm thickness		
SAMPLE IDENTIFICATION ERDA Sample Code No. : ISDEW00813036			
TEST DETAILS Sr. Test particulars No		TEST SPECIFICATION	
1 Low Temperature Flexibility		ISI 09-13-1981	
2 Heat Shock test		ASTM D 2671-2000	
PREPARED BY		CHECKED BY	
		APPROVED BY	
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REPORT No: ISDEW00813036-2		DATE: 10-5-2011		SHEET 2 of 2	
Sr. No.	Particulars of tests & Cl. No.	Requirements as per specification*	Obtained value	Remarks	
1.	Low temperature flexibility at -20°C for 4 hours Cl.No.3.8 -Visual Examination	Sample shall not show any sign of cracking	Sample did not show sign of cracking.	Conforms	
2	Heat Shock test at 120°C for 4 hours -Visual Examination	Sample shall not show any Split sign of cracking, flowing or dripping.	Sample did not show Split any sign of cracking, flowing or dripping.	Conforms	
*requirement value as specified by the customer.					
PREPARED BY				CHECKED BY	



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Test Certificate - Mechanical

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TEST REPORT		SHEET 1 of 2
NAME & ADDRESS OF CUSTOMER Amar Industries 2, Sarvodaya Industrial Estate, Mu. : Khatamba, Po. Ankhol, Waghodia Chokadi, Vadodra.	REPORT No DATE	ISDEW000813036-1 10-5-2011
	CUSTOMER REF No DATED	Nil 23-3-2011
	DATE OF SAMPLE RECEIPT	DATE OF TESTING 24-3-2011 to 31-3-2011
	SAMPLE DESCRIPTION PVC Dip Moulded Insulating Material in sheet form of 2mm, 4 mm and 6 mm thickness	SAMPLE IDENTIFICATION ERDA Sample Code No. : ISDEW000813036
TEST DETAILS	TEST SPECIFICATION	
Sr. Test particulars No		
1 Tensile strength & Elongation at break	ASTM D 638-91	
2 Specific gravity	ASTM D 792-2008	
 PREPARED BY	 CHECKED BY	 APPROVED BY
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REPORT No: ISDEW000813036-1		DATE: 10-5-2011	SHEET 2 of 2	
Sr. No.	Particulars of tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Tensile Strength and Elongation at break Tensile strength, N/mm ² Elongation at break, %	Min. 9 Min. 225	13.7 463	Conforms Conforms
2.	Specific gravity	-	1.27	-
*requirement value as specified by the customer.				
 PREPARED BY		 TESTATION DIVISION		 CHECKED BY

0628275

BUSBAR INSULATING SHROUDS

Insulating the bus bar and switchgear joints is a very unmanageable and exceptional job owing to a very complex and varied profile of the joints in the layouts that are of much customized nature. Because of this majority of the joints are left open without insulation. This in turn results in short circuits, breakdowns and in most cases - the interruptions



In many advanced countries and some of the Indian MNCs have made it mandatory to use flexible shrouds made of PVC Plastics for insulation of joints. These electrical insulation shrouds are easily mountable, replaceable and serviceable but also possess better heat resistant and electrical properties



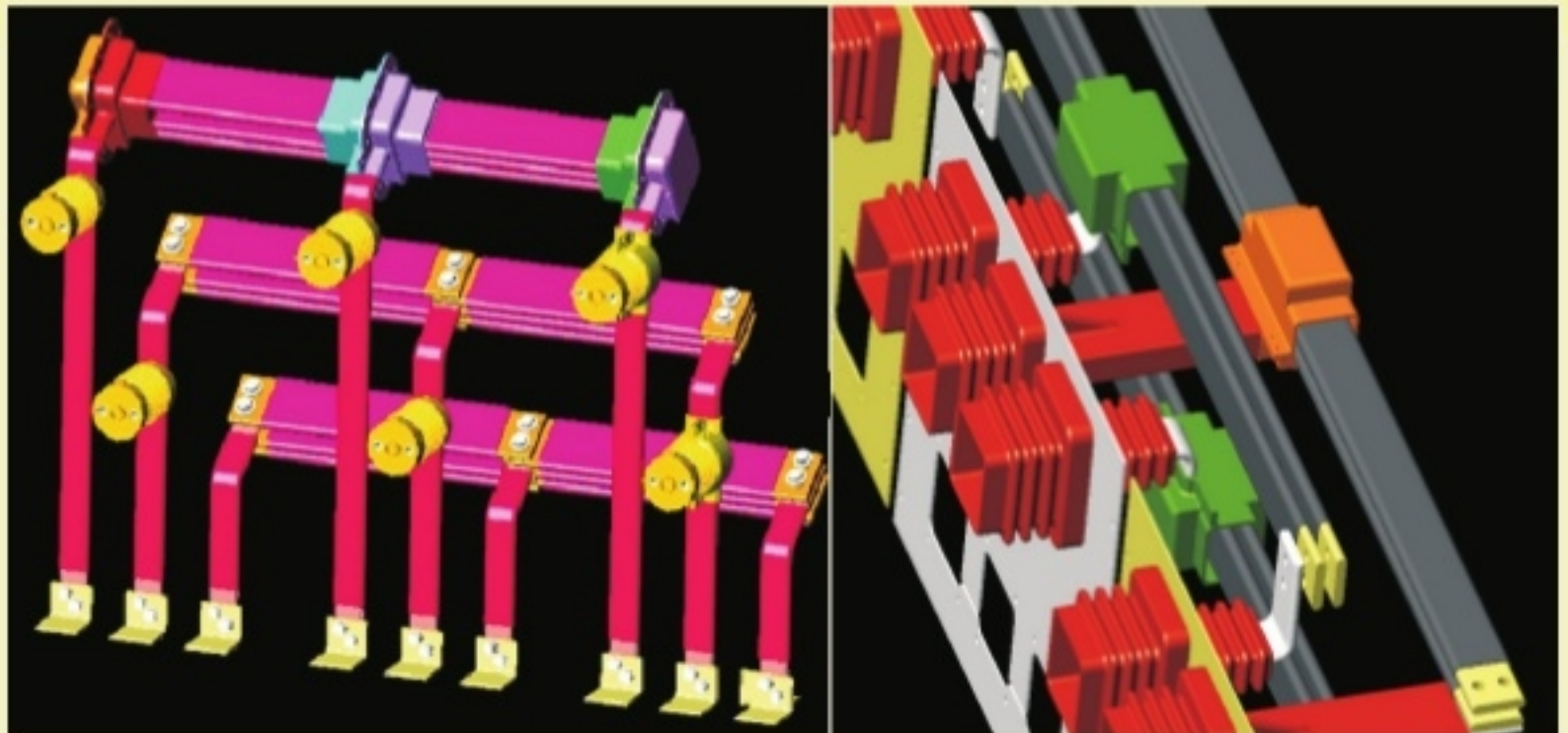
In developed countries these industrial insulation shrouds are used even in areas that are never reached by humans just to save the wild life of birds. In India one hardly comes across any insulation of these live high voltage joints. But in recent times even the developing nations are very keen in using insulations to protect the wildlife. Busbar shrouds are all based on customized designs and shapes. They are very flexible in nature.

BUSBAR INSULATING SHROUDS

Features:

- ✓ Suitable for insulating busbar joint works application (tee, elbows, etc.)
- ✓ Provides significant reduction in air clearances
- ✓ Special buttons makes it quick to install, remove or replace during maintenance.
- ✓ Excellent thermal and electrical properties.
- ✓ Highly resistant to UV rays & ozone.
- ✓ Good for indoor and outdoor applications.
- ✓ New design moulds can be developed in a week.

Busbar Shroud Configuration



OUTDOOR PROTECTORS

Outdoor Protector are re-enterable closure, quick and easy to install, are been designed to insulate connection of fuse bushings. The UV resistance, anti-tracking material protects energized conductors from flashover caused by wildlife.

These insulating covers are designed to prevent animal caused outages on bushings ranging from 15 to 35kV. There are wide ranges of bushing sizes and are suitable for substation and distribution applications.



Fast and Versatile Installation No trimming is required and they fit a wide range of bushing skirt diameters. If needed, they can be installed on energized equipment as well. The feathered edges of these covers allow for conductor exits in both vertical and horizontal directions. These same edges act as thermal scan sites for true temperature evaluation of the covered hardware. High Performance Material Superior high-voltage outdoor materials are used in the Outdoor Protector design . The rugged, non tracking, UV-resistant polymer ensures long-term performance evens in the most extreme environmental conditions.



Features

- ✓ Protects unscheduled outages caused by wildlife
- ✓ UV protected for extended life
- ✓ High insulation factors
- ✓ Flame retardant properties
- ✓ Extreme temperature resistance
- ✓ Very cost effective
- ✓ Installed, removed or replaced safely & easily

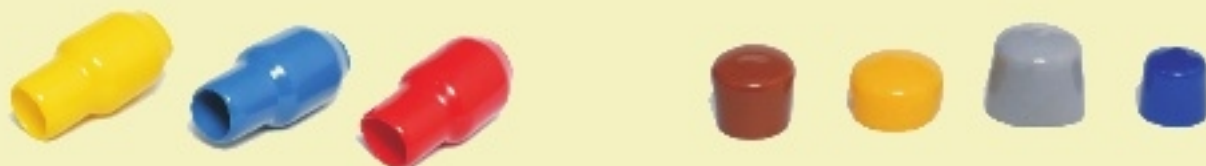
END CAPS & HANDLE GRIPS

PVC dip moulded handle grips gives superior grip to your products. Applications: general engineering; electrical; automotive; and switchgear, etc. PVC end caps are strong & permanent environmental seal. Excellent resistance to weathering, moisture contamination & adverse environmental conditions. They are available in various sizes and shapes i.e. round, flat, square.



FEATURES:

- ☞ Push-on type application
- ☞ Ensures perfect protection to cable ends from weathering, moisture & contamination.
- ☞ Quick & easy installation without any tools. No skill is required.
- ☞ Extremely economical and cost effective compared to Heat Shrink End Caps.
- ☞ Available in full range for :-
 - ☞ Busbar -20 X 3mm to 200 x 10mm
 - ☞ Cable diameter from 1.5 mm to 120mm.



BELLOWS

Machine tools which operate at elevated speeds and undergo heavy-duty operations are often subject to lot of dust, dirt and chips formation on the tool and machine. These problems not only reduce the life of the tool but also minimize the efficiency of the machine. These troubles can easily be handled & minimized with the help of PVC Bellows



PVC Bellows are very useful in protecting guide ways of:

- ☞ Machining equipment
- ☞ Handling equipment
- ☞ Industrial robots
- ☞ Electrical Transformers
- ☞ Switchgear Systems etc



Machining centers and heavy-duty machines etc, from:

- ☞ Dust
- ☞ Dirt
- ☞ Coolants
- ☞ Chips
- ☞ Cutting oils Fluids and stray sparks



In drilling machines, while doing machining operations like drilling and recessing, of wood, fiber glass etc., lot of dust is generated which can cause drill head and drill bit disorder, and reduces the efficiency of the machine. The PVC Bellows not only protect the machine but also improves the efficiency. The Bellows also protect operators from accidental contact with moving machine parts. It also gives an aesthetic look to the machine

CABLE GLAND HOOD

Cable gland hood made by PVC dip moulding process are very flexible, durable, soft & of high insulating properties. We manufacture all types of BW & CW gland hoods.

Customized designs for Cable Gland Hood Can be made. We also manufacture LSF Shrouds.

BW TYPE



CW TYPE



COUPLER COVER

We offer coupler covers which are known for its effective functioning among our valued clients. It is manufactured from high quality of raw material which is procured from genuine vendors.



These covers are primarily used in the wiring harness of the two wheelers. It is manufactured in accordance of requisite norms & standards.

BATTERY TERMINAL CAP

We have a wide array of Dip molded terminal battery caps for various industrial and domestic appliances.

All of these moulded terminal battery caps are manufactured using the superior quality Dip moulded plastics which ensure high tensile strength and resistance from general wear and tear.

We are successfully satisfying the varied requirements of many industrial clients through our flawless range of product



TERMINAL INSULATION COVER (LUGS CAP)

Terminal Insulator Cover is made from high quality Flexible PVC Material. It is used for insulating & protecting material.



Features:

Protecting Insulating covers for straight or flat-type terminals.
The covers easily snap on after crimping the terminals.
The sleeve prevents entry of dust from the cable end.
Available in customs size, shape & colors.



PVC TERMINAL CAP

Our range of **PVC terminal caps** for wiring harness are available in various form such as pads, diaphragms, bushes and many more. These wiring harness are used in both two & four wheelers. We customize our wire harness as per clients' specifications



Insulators

Insulators such as support insulators, busbar insulators etc for switchgear industry. These insulators can be offered with inserts made of different metals such as Mild steel, Stainless steel, Brass, Aluminium or any material specified by the customer. The positioning of the insert also can be adjusted to suit the customer's requirement. These insulators can be developed for usage in different medium like air, oil or in gases like SF6. Other type of insulators for fireproof and explosionproof applications can also be developed on request.



HEAT SHRINK SLEEVE

heat shrinkable tubes are designed to insulate busbar systems up to 36KV & to protect against accidental flashover. The tubes are manufactured from high quality non tracking crosslinked polyolefin material.

Features

- Reduce Busbar clearance.
- Solve the problem of insulation among Busbar in Bus Duct.
- High dielectric strength.

