



## **MOULDED PRODUCTS**

### **Molded Rubber Products**

URI provide its customers with precision solution for a wide range of molded rubber products. URI molding processes include injection, compression and transfer molding to accommodate various sizes and volume requirements. Rubber molded components include various Mounting, Air Cleaner Hoses, Dampers, Grommets, Boots, Gasket, Connector, Floor Mat, “O” Rings & Seals etc. Various natural and synthetic rubbers are used for manufacturing these components to suit the wide variety of functional, service and environmental conditions like extreme hot and cold temperature, exposure to various chemical Ozone, intermittent and continuous mechanical stress etc.

### **General Feature**

- Designed as per customer requirements
- Tested as per performance requirements
- Rubber used as per application

### **Injection Molding**

Injection molding process is the manufacturing process which is accomplished by taking uncured rubber compound and forcing it into heated mould cavity through reciprocating screw and runner. The compound is formed and cured under pressure and temperature, then removed to cool as a custom shape.

### **Compression Molding**

Compression Molding is defined by taking pre measure rubber compound that is placed into a heated open lower mould cavity. The top cavity is then forced closed, causing the compound to flow through the shape of the mould. After curing, the mould cavity is opened and the molded component is removed.

## **Transfer Molding**

Transfer molding is a form of rubber production in which the raw material is measured, heated and then forced into chamber. A plunger is used to force the material into the mould using a system of runners and channels to thoroughly fill the closed mould. The mould is heated to cure the compound. The mould is then opened and the molded parts are removed.

## **Material Used**

**Variety of materials are used for molding products including NR, SBR, CR, Butyl, Viton, Silicone, NBR, EPDM, Polyacrylic, VAMAC, Tyrene, etc.**

## **Typical Molded Products**

Gasket, Bumper, Grommets, Bushing, Sealing Rings, Bump Stopper, Coupling, Pad, Washers, Boots, Bellows, Dust Cover, Diaphragm, Molded Hose etc.

## **Typical Application**

- Automotive
- Compression
- Mining
- Appliance
- Medical Equipment
- Military
- Heavy Equipment
- Marine
- Power Plant Equipment
- Track, Body & Cab
- Water & Sewer Pipe Gasket & Coupling
- Valve & Fluid Sealing
- Vibration & Shock Isolator
- Industrial Equipment
- Textile
- White Goods Industries.

## **Gasket**

Gaskets which are normally used for sealing are manufactured by molding process in different profile and configuration from the most simple to most complex from various engineering elastomers (EPDM, NBR, Silicone, Butyl, Viton, NR, VAMAC, Polyacrylic) for application in Automotive, Defence, Railways, Construction Equipment, etc.

## **Boot & Dust Cover**

Rubber Bellows and Convuluted Rubber Dust Boots are versatile seal used in amide range of applications to seal dust and other environmental elements in application with a stroke or designed range of motion. Rubber Bellows and Boots are custom designed or as per customer design for the application and made in various polymer like EPDM, Neoprene, Nitrile, Silicone, Viton, etc.

## **Grommets**

Grommets are custom designed or as per customer specification. Grommets are used in the Automotive, Defence, Railways, Construction Equipment, General Industrial segments for various applications like for protecting wire, hose, pipe or other objects passing through a solid panel wall, for isolation and reduction of noise and vibration to provide insulation, sealing, spacers, etc.

## **Rubber Diaphragms**

Rubber diaphragms are custom designed or designed as per customer design to meet the unique application requirements in fluid interaction, pressure and vacuum and dynamic requirements. These are molded in various configuration and geometry with and without integrated reinforcing materials or metal bonded. Diaphragms are made in a wide variety of materials depending on the media to be sealed and it include EPDM, NBR, HNBR, Viton, Neoprene, Silicone, etc.

## **Rubber Connector**

Molded Rubber Connectors are custom designed or designed as per customer specification. The Rubber Connectors are used in various applications in Automotive, Power Cable, Construction Equipment, Railways, etc. For connecting pipes, cable components which normally act to present stress generation in the connecting components and compensate for the misalignment. Rubber Connectors are made from various engineering rubbers like EPDM, NBR, CR, Silicone, Viton, etc.

## **Mud Flap**

Rubber mud flaps are used as splash guards in the Automotive and Transport vehicles. These are custom made or as per customer designed. Rubber mud flaps are made of Ozone and weather resistance as well as high tear resistance rubber like EPDM, Neoprene Rubber, etc.

## **Rubber Cork Pad**

Rubber Cork Pad with ribs or waffled surface which are preventing slippage are custom designed or made as per customer designed. These are used for protection of vibration, noise and shock application. These are manufactured by molding process in sandwich layers of Rubber Sheet, Cork Sheet and Rubber Sheet and cut to make as per size requirements.

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