KP Rubber & Polymer

The World of Rubber Engineering







Specialist in: Silicone Extrusion

Rubber Moulding

910/1/C, GIDC Makarpura, Vadodara – 390010 9601703979 kprpolymer@yahoo.com

Products Range

- Silicone Tubes (Transparent & Coloured)
- Silicone Cords (Round & Square)
- Silicone Sponge Cords & Gaskets
- Silicone Extruded Door Gaskets
- Silicone Inflatable seals/FBD Gaskets
- Rubber Gaskets
- Rubber O Rings
- Flange Gaskets
- Butterfly Gaskets
- Silicone TC Gaskets
- Rubber Bellows & Diaphragms
- Steel Insert Rubber Gaskets
- Rubber Bushes & Corks
- Rubber Grommets
- Rubber molded items
- Rubber Sheets
- Rubber compounds
- Viton Cords
- Teflon Sheets & other products
- Insulation Mats
- PVC Tubes & Sleeves
- PVC water stoppers

Polymer Range

- Silicone
- Viton
- EPDM
- Neoprene
- Nitrile
- Fluoro Silicone
- Natural Rubber
- Hypalon
- Teflon
- PVC

Our Strength

- Dedicated team of Qualified and Experienced Professionals
- Well-equipped manufacturing infrastructure with advanced machinery
- Capable to develop customised products as per our customer's requirements
- Fully automatic microwave curing system to get accurate dimensional properties, glossy surface finishes and aesthetically good finish
- Quick Delivery with strong Customer Support System
- Growing Customer Base and their trust

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Silicone Tubings



Silicone Transparent Tubes



Silicone Coloured Tubes



Silicone Sleeves

KP Rubber is one of the leading manufacturer and supplier of Silicone Tubes which are manufactured using quality raw material and are fit for extensive applications in Food, Pharma, Chemical, Electrical, Heavy & medium Engineering, Medical, Thermal Power Stations and PSUs. These tubes are available in various grades and specifications and are made from 100% pure Silicone Rubber.

Characteristics

- Nontoxic and excellent heat resistance (-50°C to 230+° C)
- Electric, weather and ozone resistance
- Available with FDA and RoHS compliance
- Odourless and withstand many chemicals
- Non-reactive to body fluids and tissues
- Good water and flame resistance
- Sterilisable & Avoids bacterial growth
- Perfect finish, easy to fit and leakage proof
- Good compression set and Tensile strength

Applications

- Transfer of oral and sterile liquids
- Peristaltic Pump based fluid transfer
- Injection and Vial filling machines
- High voltage Insulation
- Disposable and Pharmaceutical Industry
- Drug delivery System
- Food and beverages transfer
- Sealing and Gasketing

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Silicone Cords & Strips



Silicone Round Cords



Silicone Square Cords



Silicone Sponge Cords

KP Rubber manufactures silicone cords ranging from 0.5mm to 60 mm in both round and square sections which are used in many applications such as gaskets for harsh environments, high temperature sealing. Our cords have superior finish, dimensionally accurate and have consistent physical properties throughout the length. In addition to solid cords, we also manufacture sponge cords and strips, hardness ranging from 10 to 40 shore A. Having good flexibility and resiliency, we also provide customized cords as per client's requirement.

Characteristics

- Electric, weather and ozone resistance
- Nontoxic and excellent heat resistance (-50°C to 230+° C)
- Available with FDA and RoHS compliance
- Odourless and withstand many chemicals
- Good acoustic and thermal insulation properties
- Good water and flame resistance
- Non sticky & Non Porous
- Crack resistant & easy to fit
- Good compression set and Tensile strength

Applications

- Sealing and gasketing applications
- Bakery Oven doors & Sterilizers
- Grooves of machined parts
- Food and medical equipments
- PVC Pipe bending
- High and low temperature acoustic insulation
- Pharmaceutical Industry
- Used to make round O rings

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Silicone Extruded Profiles



Silicone Extruded Profiles



Silicone Extruded Profiles



Silicone Extruded Profiles

KP Rubber and Polymer manufactures a wide range of silicone extruded profiles in 500+ customised shapes and designs. These gaskets are available in multiple colours and grades such as pharma, food and medicals. Our extruded profiles have superior finish, dimensionally accurate and have consistent physical properties throughout the length. We also make tailor made extruded profiles as per clients' requirement

Characteristics

- Nontoxic and excellent heat resistance (-50°C to 230+° C)
- Electric, weather and ozone resistance
- Available with FDA and RoHS compliance
- Odourless and withstand many chemicals
- Non-reactive to body fluids and tissues
- Good water and flame resistance
- Avoids bacterial growth
- Perfect finish, easy to fit and leakage proof
- Good compression set and Tensile strength

Applications

- Clean Room and Freeze doors
- Autoclaves and dry heat sterilizers
- Pharmaceutical machine doors
- Air tight door seal applications
- Bakery Ovens & Isolators
- LED Gaskets
- Textile Machineries
- Modular rooms doors and windows

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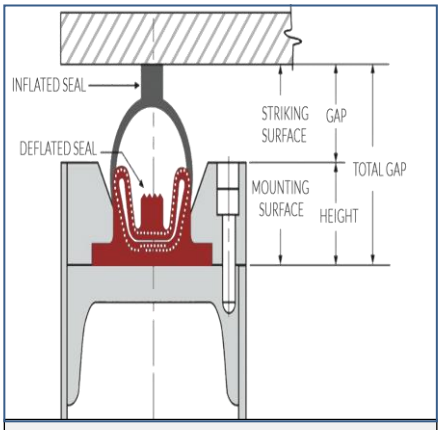
Silicone Inflatable Gaskets



Silicone FBD Gaskets



Silicone Inflatable seals



Basic Design

KP Rubber is one of the leading manufacturers of silicone inflatable gaskets and supplying to many pharmaceutical companies since many years. Our range of Inflatable gaskets is made from high strength FDA approved transparent silicon rubber. These gaskets provide an electrically conductive seal between conductive sections of a shielding enclosure. These gaskets are prior checked on pressure bearing capacity. We offer our customers inflatable seals with complete assembly.

Characteristics

- Provides a leak proof closure and allows clearance when required
- Gives Tolerance and Pressure
- Not subjected to compression set which negates effect of other seals
- Good inflation and deflation property on joint & Nozzle
- Leak proof property at joint and nozzle
- Accurate size with tolerance of ±5% & can withstand 4 kg/cm2 pressure
- Not subject to compression set which negates effectiveness of other seals
- Perfect finish & Easy to fit

Applications

- Fluid bed dryers in pharmaceutical applications
- Powder and bulk solid handling machineries
- Inflatable door and valve seals
- Conveyors and material handling systems
- Industrial washing and extractor machines
- Medical Sterilizers & Oven door seals
- Food processing equipments
- Electronic/Wafer semiconductor processing

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Rubber O Rings



Rubber O rings



Flat Rubber Rings (Washer)



Rubber U/V Seals

We manufacture O rings and seals from extensive range of elastomers which are compatible with water, oils, steam and various types of chemicals. These round seals are used to prevent leakage of gas and fluids in both dynamic and static applications. These rings are available in both standard and customised sizes, ranging from 1.00 mm ID to 600 mm ID. These rings are available in silicone, Viton, Nitrile, Neoprene, EPDM and all different types of rubber

Characteristics

- Nontoxic and excellent heat resistance (-50°C to 230+° C)
- Electric, weather and ozone resistance
- Available with FDA and RoHS compliance
- Odourless and withstand many chemicals
- Good resistance against heat and compression
- Good water and flame resistance
- Excellent durability and sturdiness
- Perfect finish, easy to fit and leakage proof
- High cracking resistance

Applications

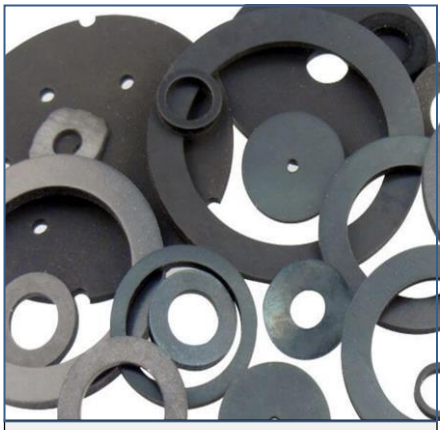
- Automotive applications
- High temperature seals
- Fuel system sealing
- Aircraft engines
- High vacuum applications
- Filter housing
- Pneumatic cylinders
- Peristaltic Pumps

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Rubber Gaskets



Flange Gaskets



Ring Gaskets



Tri-Clover(TC) Gaskets



Butterfly Gaskets



Steel Insert Rubber Gaskets



Customised Rubber Gaskets

We manufacture gaskets in:

1. Silicone
2. Viton
3. EPDM
4. Neoprene
5. Nitrile
6. Natural Rubber
7. Hypalon
8. FluoroSilicone

Rubber Gaskets manufactured at KP Rubber & Polymer are widely used in various industries to fill space between two objects and hence prevent the leakage while under compression. They provide high pressure sealing under static condition, resistance from high/low temperatures, weather & chemical exposure. All Gaskets are available in variety of custom shapes and sizes and can be fabricated as per customer's requirement. Our gaskets are highly durable with perfect surface finish and very low tolerances.

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Rubber Moulded Parts



Rubber Diaphragms



Rubber Bellows



Rubber Bushes



Rubber Grommets



Rubber Corks & Stoppers



Suction Cups

We manufacture molded parts in:

1. Silicone
2. Viton
3. EPDM
4. Neoprene
5. Nitrile
6. Natural Rubber
7. Hypalon
8. FluoroSilicone

We manufacture rubber molded parts in various shapes and sizes which are used for versatile applications in the industry. They are made with fine grade rubber to provide the required strength, temperature resistance, Vibration resistance and load bearing capacity. We manufacture numerous standard rubber molded parts such as bushes, bellows, diaphragms as well as customised machinery rubber parts as per our customer's requirement. These molded parts can be made in variety of colours and grades of rubber.

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Rubber Sheets



Rubber Compounds



Teflon Sheets



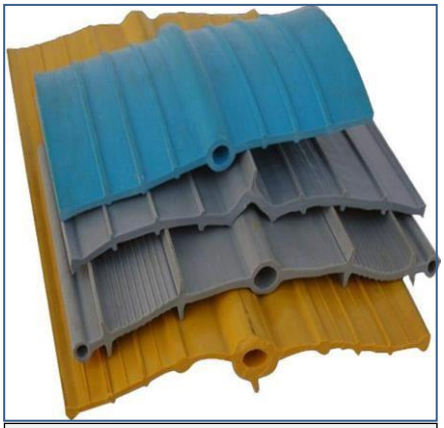
Viton Cords



PVC Tubes & Pipes



Insulation Mats



PVC Water Stoppers



Teflon Tubes



Nitrile Cord

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Rubber Characteristics Table

	Silicone	Viton FKM	EPDM	Nitrile NBR	Neoprene	Natural Rubber	Fluoro silicone
Hardness Range Shore A	10-90	50-95	30-85	40-95	30-90	30-95	40-80
Heat Resistance °C							
Max. Continuous	205	205	130	100	95	75	180
Max. Intermittent	300	300	150	130	125	105	200
Low Temperature Resistance °C	-60	-20	-50	-20	-40	-60	-60
Physical Strength	Poor	Good	Good	Good	Good	Excellent	Poor
Electrical Strength	Excellent	Good	Excellent	Poor	Good	Excellent	Excellent
Water Resistance	Good	Good	Excellent	Good	Good	Good	Good
Flame Resistance	Good	Self-Extinguishing	Poor	Poor	Self-Extinguishing	Poor	Self-Extinguishing
Tear & Abrasion Resistance	Poor	Good	Good	Good	Good	Excellent	Poor
Resistances							
Oxidation	Excellent	Excellent	Excellent	Good	Good	Fair	Excellent
Ozone & Weathering	Excellent	Excellent	Excellent	Fair	Good	Poor	Excellent
Chemical Resistances							
Acids	Fair	Excellent	Good	Good	Good	Fair	Good
Bases	Fair	Good	Good	Fair	Fair	Good	Fair
Resilience	Good	Fair	Good	Good	Good	Excellent	Fair
Compression Set	Good	Good	Good	Good	Good	Good	Good
Permeability to Gases	Low	Low	Low	Low	Low	Poor	Low

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