



Sapphire
An evolution of rubber...

Manufacturer & Exporter of
Butyl & Natural Reclaim Rubber



WE RECYCLE AND PRODUCE BUTYL & NATURAL RECLAIM RUBBER

Established in the year 2011, Sapphire Reclaim Rubber Pvt. Ltd. is one of the leading manufacturers, suppliers and exporters of different types of Reclaim Rubber Products.

Butyl Reclaim Rubber

At Sapphire Reclaim Rubber Pvt. Ltd., we manufacture and supply Butyl Reclaim Rubber in the name of our brand SAPPHIRE. Our manufacturing plant in Rajkot, Gujarat, India is known for its environment-friendly production of Butyl Reclaimed Rubber. Our products can be relied upon for use in a variety of verticals like automobile tubes, tyre inner liners, hoses, sound dampers, adhesives, and a wide range of rubber-moulded goods.



Applications

Butyl Inner Tubes, Tyre Inner Liner, Adhesives, Cables, Hoses, Black Colored Rubber Products

Specifications

KEY GRADES	UNITS	STANDARDS	
Acetone Extract	%	ASTM D297-18	9 ± 3
Ashes	%	ASTM D297-18	4 ± 2
Carbon Black	%	ASTM E 1131	28 min
Polymer Content	%	ASTM E 1131	50 min
Specific Gravity	gm/cc	ASTM D297-18	1.11 ± 0.03
Hardness	Shore A	ASTM D2240	57 ± 5
Tensile Strength	kg/cm2	ASTM D412	75 min
Elongation at Brake	%	ASTM D412	480 min
Mooney Viscosity	ML (1+4)@100C	ASTM D1646	40 ± 10
Curing			
	30min @ 160C		-
	Reclaim (R.H.C.)		100 phr.
	ZnO		5 phr.
	TMTD		1 phr.
	Sulphur		2 phr.
	MBT		0.5 phr.

Natural Reclaim Rubber

Sapphire's Natural Reclaim Rubber is recycled and manufactured from used scrap natural tube rubber. Used in variety of applications like automobile, extruded parts, moulded rubber parts and adhesives etc. Natural reclaim is very refined rubber finding usage in households and industries.



At Sapphire Reclaim Rubber Pvt. Ltd. we produce Natural Reclaim Rubber in the name of our brand SAPPHIRE.

Applications

Natural rubber tubes for bicycle, 2-3 wheeler, Light motor vehicle etc., Automobile extruded parts, Moulded rubber product, Other extruded product, Adhesives

Specifications

KEY GRADES	UNITS	STANDARDS	
Acetone Extract	%	ASTM D297-18	10 ± 4
Ashes	%	ASTM D297-18	25 ± 5
Carbon Black	%	ASTM E 1131	18 ± 7
Polymer Content	%	ASTM E 1131	45 min
Specific Gravity	gm/cc	ASTM D297-18	1.25 ± 0.05
Hardness	Shore A	ASTM D2240	60 ± 5
Tensile Strength	kg/cm2	ASTM D412	30 min
Elongation at Brake	%	ASTM D412	250 min
Mooney Viscosity	ML (1+4)@100C	ASTM D1646	40 ± 15
Curing			
	20min @150C		-
	Reclaim (R.H.C.)		100 phr.
	ZnO		5 phr.
	TMTD		3 phr.
	Sulphur		3 phr.
	MBT		0.5 phr.
	Steric Acid		2 phr.
	Dz		0.20 phr.

Whole Tyre Reclaim Rubber

We are one of the leading Whole Tyre Reclaim Rubber manufacturers in India. Whole Tyre Reclaim Rubber is manufactured from whole tyres and tyre treads. Whole Tyre Reclaim Rubber is available in various grades like superfine grade, medium grade and coarse grade.



Applications

Truck Tyre, Tread Rubber, Rubber moulded components, Cycle Tyre, Rubber Mats Battery Containers

Specifications

PROPERTIES	UNITS	GRADE-SF	GRADE-F	GRADE-M	GRADE-HTR-F	GRADE-HTR-M
		LIMITS	LIMITS	LIMITS	LIMITS	LIMITS
CHEMICAL PROPERTIES						
Acetone Extract	%	14 ± 2	14 ± 2	14 ± 2	14 ± 2	14 ± 2
Ash Content	%	10 ± 2	10 ± 2	10 ± 2	7 ± 3	7 ± 3
Carbon Black	%	25 ± 2	25 ± 2	25 ± 2	28 ± 3	28 ± 3
Rubber Hydrocarbon	%	50 Min.	50 Min.	50 Min.	48 Min.	48 Min.
Volatile Matter	%	1 Max.	1 Max.	1 Max.	1 Max.	1 Max.
PHYSICAL PROPERTIES						
Specific Gravity	--	1.14 ± 0.03	1.14 ± 0.03	1.14 ± 0.03	1.14 ± 0.03	1.13 ± 0.02
Tensile Strength	KG/SQ.CM	60 Min.	50 Min.	45 Min.	75 Min.	60 Min.
Elongation At Break	%	250 Min.	230 Min.	210 Min.	250 Min.	230 Min.
Hardness	SHORE'A'	57 ± 5	57 ± 5	57 ± 5	59 ± 3	59 ± 3
Mooney Viscosityml (1+4)@100 'C	--	40 - 60	40 - 60	40 - 60	35 - 60	35 - 60

Quality

At Sapphire Reclaim Rubber, we are dedicated to cater to the ever-expanding demand for good quality reclaimed rubber. With a vision to consolidate the existing rubber industry in the country, the company is committed towards attaining international standards in the quality of its rubber products.

To ensure this, every reclaimed product produced at our production house processed in a way that it is free of contaminants and fibers, a process which ensures high tensile strength and a superfine grain structure. Our Tyre reclaim and Butyl tube reclaim have high tensile strengths. All our products are well suited for use in a wide range of industries.

Sapphire Reclaim Rubber has been certified to ISO 9001:2015 for Quality Management System.

As a leading reclaim rubber manufacturer, Sapphire Reclaim Rubber Pvt. Ltd. has a fully equipped laboratory that provides adequate test facilities for quality checking so as to ensure all products have precise uniformity and consistency. We also make realistic estimates, efficient scheduling, and total warehousing of raw materials to deliver the final product on time and in accordance with exact specifications.

Whether it is a simple or complex rubber component, our professionals are capable of catering to every requirement of the client. We use various environment-friendly processes to produce highly reliable rubber reclaim.

Production Process

The scrap is collected from a network of approved suppliers and is further segregated to ensure only the required material is taken for reclaiming. The entire process is divided into two phases. In the first phase, the scrap is passed through a number of stages to ensure that it is free of contaminants.

In second phase the material is depolymerized and filtered with screens from 60 to 100 Mesh for metal impurities through straining and then further refined for crushing the rubber granules by the means of refining process with high quality rubber refiners to get the original depolymerized reclaim rubber at the end.



About Us

Established in the year 2011, Sapphire Reclaim Rubber Pvt. Ltd. is one of the leading manufacturers, suppliers and exporters of different types of Reclaim Rubber Products.

Sapphire Reclaim Rubber Pvt. Ltd., the reliable and prestigious name in the field of reclaim rubber manufacturing is situated in Rajkot, Gujarat, INDIA. We hold immense expertise in offering Butyl Inner Tube Reclaim Rubber and Natural Inner Tube Reclaim Rubber. Reclaim Rubber is widely used in manufacturing of automobile tyres and tubes as well other rubber products. By adding reclaim rubber with the virgin, it reduces the production cost of the product as well as improves the mechanical strength of the product.

Sapphire Reclaim Rubber intends to save valuable resources for future generations, with a vision to consolidate the existing rubber industry in the country. The company is committed towards attaining international standards in the quality of its rubber products. After making key efforts in research of reclamation of rubber, Sapphire Reclaim Rubber has made a place for itself where clients can put the complete reliance on the quality and timely deliveries of our products.

Application Area

We are known for our Reclaim Rubber products, which are extremely durable. These products are used for manufacturing cables, tyre inner liner, hoses and automobile extruded parts. Some of the places, where our rubber products find application are:

- Automobile tyre and tube industry
- Construction industry
- Pharmaceutical industry
- Photochemical industry
- Jewellery industry
- Automobile industry

On account of this idea, we have been growing fast by expanding technology up-gradation of the latest reclaiming machinery and promoting our brand in domestic as well as in international markets by producing quality Butyl Inner Tube Reclaim Rubber and Natural Inner Tube Reclaim Rubber.

We employ latest technology and hi-tech equipment to develop a range of rubber reclaim products using eco-friendly production processes. The plant has a time tested integrated system in place for procurement of quality raw materials, efficient manufacturing techniques, testing procedures including research and design for ensuring consistency in quality output. The company emphasizes on training of employees on a regular basis for improvement of their skills and creates an encouraging atmosphere towards quality.

Reclaim Rubber has played an important role in industries worldwide. It is considered to be third source of rubber after natural and synthetic rubber.

Our Quality Policy

- Continuously strive to improve the effectiveness of our quality system
- Adopting every processing and testing stage to maintain quality
- Adhering to human resource management for the quality assurance programs

We are a quality conscious organization and take maximum care to maintain the required standard in our products and services. Our range of Reclaim Rubber products are manufactured using old used scrap of Butyl tube and Natural tube, which are procured from reputed vendors. At every stage of manufacturing, our rubber products undergo stringent quality checks. The rubber products are tested by the quality controllers on the basis of durability and resistance to abrasion.

Contact Us

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