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SWARNA RUBBER INDUSTRIES LLP



- Whole Tyre Reclaim Rubber
- Butyl Reclaim Rubber
- Natural Tube Reclaim
- EPDM Reclaim Rubber
- EPDM Crumb Powder 10-100 Mesh
- Whole Tyre Crumb Powder 10-100 Mesh



Company Profile

ISO 45001:2018
ISO 9001:2015
REACH COMPLIANCE

Swarna Rubber produces reclaim rubber from end of life butyl tubes, tyres, natural rubber, moulded rubber products for use in both tyre and non-tyre rubber products.

Swarna Rubber Industries LLP based in Ludhiana, Punjab is already a domestic leader in the butyl reclaim rubber sector WTR, EPDM and Natural rubber reclaim. This has transpired because of the continuous focus of this company on quality and production.

PARTICULARS	UNITS	STANDARDS	EPDM
Acetone Extract	%	ASTM D297	35 Max
Ash	%	ASTM D297	20 Max
Carbon Black	%	ASTM D297	24-32
RHC by Difference	%	ASTM D297	25 Min
Specific Gravity	-	ASTM D297	1.2 Max
Hardness	Shore A	ASTM D 2240	50 - 60
Tensile Strength	kg/cm2	ASTM D412	60 Min
Elongation	%	ASTM D12	275 Min
Mooney Viscosity	ML (1+4)@100°C.	ASTM D1646	25 - 45
Volatile Matter	%		1 max

Curing	
20min @ 160°C	
EPDM Reclaim	100.00
ZnO	5.00
Steric Acid	1.00
MBT	0.50
TMTD	1.00
Sulphur	2.00

POLYCOAT

Polycoat is a high performance elastic powder in compounded form produced by specialized treatment of ground waste rubber. It is available for distribution and sale only in India. In Polycoat Swarna has 2 grades.



EPDM Reclaim Rubber

EPDM rubber is M-class synthetic rubber. EPDM stands for Ethylene Propylene Diene Monomer (M-class) rubber. EPDM rubber is a terpolymer of ethylene, propylene, and a diene-component. Generally, ethylene content is around 45% - 85% in EPDM rubber. The higher ethylene content gives higher loading possibilities to the polymer, making it better for mixing and extrusion. The key properties of EPDM are its outstanding heat, ozone and weather resistance. EPDM rubber has excellent electrical insulating properties. It also has very good resistance to polar substances and steam. Swarna EPDM Reclaim is high quality reclaim manufactured from EPDM factory reject profiles. EPDM reclaim is one of the most commonly used reclaim rubbers having both general-purpose and speciality applications. The vulcanization properties of SR EPDM reclaim make it particularly suitable for a variety of EPDM rubber products. In EPDM rubber reclaim Swarna has 2 grades.

Properties: Good heat, ozone and weather resistance, replaces virgin epdm & helps in reduction of compound cost, faster mixing & extrusion, reduced energy cost, absence of blemishes consistent splice strength

Application :

- EPDM Based Moulded Products
- EPDM Based Extruded Products
- Auto Tubes,

Swarna high tensile reclaim is high quality reclaim manufactured for products requiring increased physical properties.

Whole Tyre Reclaim Rubber



WTR NATURAL RECLAIM

WTR reclaim is made from end of life tyres and treads peelings. It is available in varying quality grades and smoothness. The vulcanization properties of Swarna WTR reclaim makes it particularly suitable for a variety of natural rubber tube products. In natural tube reclaim Swarna has 4 grades.

Properties: Faster mixing cycle, improved die swell, reduced power consumption due to nerve compound, no reduction in hot air ageing properties.

Application:

- Tyres, Tread Rubber,
- Conveyor belts,
- Hot Melt Adhesives,
- Automobile components, Footwear

Particular	Unit	Standards	WTR		HIGH TENSILE
			Highly Refined	Super Fine	Fine FRWHTF
Acetone Extract	%	ASTM D 297	10 - 16	10 - 14	9 -15
Ash	%	ASTM D 297	5 - 9	8 - 9	4 - 8
Carbon Black	%	ASTM D 297	25 - 30	25 - 28	25 - 31
RHC by Difference	%	ASTM D 297	47 min	40 min	48 min
Specific Gravity	-	ASTM D 297	1.10 - 1.14	1.10 - 1.14	1.11 - 1.15
Hardness	Shore A	ASTM D 2240	54 -62	54 -62	55 - 60
Tensile Strength	kg / cm2	ASTM D 412	40 min	56 min	75 min
Elongation	%	ASTM D 412	200 min	180 min	250 min
Mooney Viscosity	ML(1+4)@100°C	ASTM D 1646	25 - 50	25 - 45	40 - 60
Volatile Matter	%		1 max	1 max	1 max

Curing	
20min @ 140°C	
WTR Reclaim	100.00
ZnO	5.00
Steric Acid	2.00
MBT	0.50
DPG	0.20
Sulphur	3.00

PARTICULARS	UNITS	STANDARDS	FRN
Acetone Extract	%	ASTM D297	9 - 15
Ash	%	ASTM D297	28 - 32
Carbon Black	%	ASTM D297	15 - 25
RHC By Difference	%	ASTM D297	42 min
Specific Gravity	-	ASTM D297	1.2 - 1.3
Hardness	Shore A	ASTM D2240	50 - 60
Tensile Strength	kg/cm2	ASTM D412	30 min
Elongation	%	ASTM D412	200 min
Mooney Viscosity	ML (1+4)@100°C.	ASTM D1646	25 - 35
Volatile Matter	%		1 Max

Curing	
20min @ 155°C	
Reclaim Rubber	100.00
ZnO	5.00
Sulphur	3.00
MBT	0.50
Steric Acid	2.00
Dz	0.20

Natural Tube Reclaim

Natural Tube Reclaim is made from used natural rubber tubes. The vulcanization properties of Swarna Natural Tube Reclaim make it particularly suitable for a variety of natural rubber tube products. In natural tube reclaim Swarna has 1 grade.

Properties: Less masticating with easy incorporation. Faster mixing. Reduced energy consumption. Reduction in compound cost.

Applications:

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



Butyl Reclaim Rubber



Butyl Rubber is a synthetic rubber, a copolymer of isobutylene with isoprene. Generally its called as IIR. It stands for Isobutylene Isoprene Rubber. Butyl rubber is impermeable to air and used in many applications requiring an airtight rubber.

The major applications of butyl rubber are tyre inner tubes and inner liner. Some other application are adhesives, bladder, sealants and chewing gum.

Swarna Butyl Reclaim made from used butyl tubes. When incorporated in recipe provides faster mixing and extrusion, reduced power consumption. It is best suited for inner tubes, tyre inner line, adhesive, cable compoundth Butyl Rubber reclaim Swarna has 2 grades.

Applications:

- Butyl Inner Tubes
- Tyre Inner Liner
- Adhesives, Cables
- Hoses, Black Coloured Rubber Product.

PARTICULARS	UNITS	STANDARDS	BUTYL	CHLOROBUTYL
Acetone Extract	%	ASTM D297	6 - 12	6 - 10
Ash	%	ASTM D297	7 Max	10 Max
Carbon Black	%	ASTM D297	28 min	28 Min
RHC By Difference	%	ASTM D297	50 min	50 Min
Specific Gravity	-	ASTM D297	1.10 - 1.14	1.14 - 1.18
Hardness	Shore A	ASTM D2240	55 - 65	56 - 65
Tensile Strength	kg/cm2	ASTM D412	75 min	50 Min
Elongation	%	ASTM D412	470 min	400 Min
Mooney Viscosity	ML (1+4)@100°C.	ASTM D1646	35 - 55	35 - 55
Volatile Matter	%		1 Max	1 Max

BUTYL & CHLOROBUTYL (CURING).		
30min @ 160°C		
Reclaim Rubber	100.00	
ZnO	5.00	
TMTD	1.00	
Sulphur	2.00	
MBT	0.50	

CHLOROBUTYL

Chlorobutyl reclaim is made from used chloro butyl tubes. The vulcanization properties of Swarna Chlorobutyl Reclaim make it particularly suitable for a variety of butyl and Chlorobutyl rubber products.

Properties: Good fire resistance, good ageing stability & resistance to heat, good adhesive property and compatibility to other rubbers, less mastication with easy incorporation, improved extrusion quality & rate with better control on dimensions, reduction in splicing defects, good in-permeability to air, good ozone & weather resistance

Applications:

- Butyl inner tubes,
- Tyre inner liner adhesive,
- Cable inner compound,
- Sound dampener,
- Anti-vibration mounting,
- AC Hose,
- Water proofing sheets

