

TVS Rubber is a flagship brand of Sundaram Industries Private Limited (SIPL), Part of TVS Mobility group.

We are a leading manufacturer of Rubber Compounds and masterbatches for over 6 decades.

We operate four advanced manufacturing facilities equipped with Compound Development, Mixing, R&D, Test Labs and Quality Control— all supported by State-of-the-art machinery.

Our headquarter is in Madurai, Tamil Nadu, India. We have strong and efficient supply chain in India and abroad.

We serve clients in four continents, with strategically located warehouses.

Compounds For All Your Critical Applications

Extreme operating temperatures			Extreme performance requirement
Exposure to UV & moisture			Lite weight
Exposure to chemicals & oils			Fire retardant
Abrasion resistance			

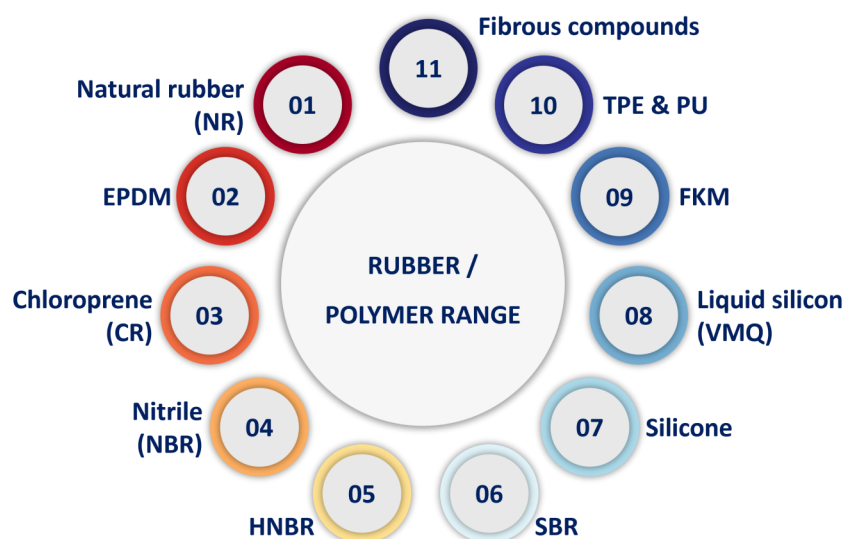
EN45545 HL3 Certified Compounds

- Silicone Rubber
- Chloroprene
- EPDM

Rubber & Compounding Capabilities

Catering to diverse industry segments provides us extensive exposure to elastomers. We continuously enhance our formulations and manufacturing capabilities not only to meet the customers' current requirements but also to meet the evolving technology trends.

- Over 500 rubber recipes in library
- Reverse engineering capabilities
- NABL accredited testing lab for compound development
- Dedicated small-scale kneader with open mill for development
- On-line data integration with mixing unit for end-to-end traceability



Compound Mixing Infrastructure

- Four kneader lines of 55L each
- Banbury 200L
- Intermix 55L
- One kneader line of 20L
- Thirteen two roll open mills
- Fully computerized chemical weighing system with POKA-YOKE to eliminate chemical miss out and excess or low weighment
- Fully air-conditioned vertical storage facility for rubber compound
- FIFO control through barcoding
- Lab scale mixing setup for new compound trials

Chemical Weighing Station



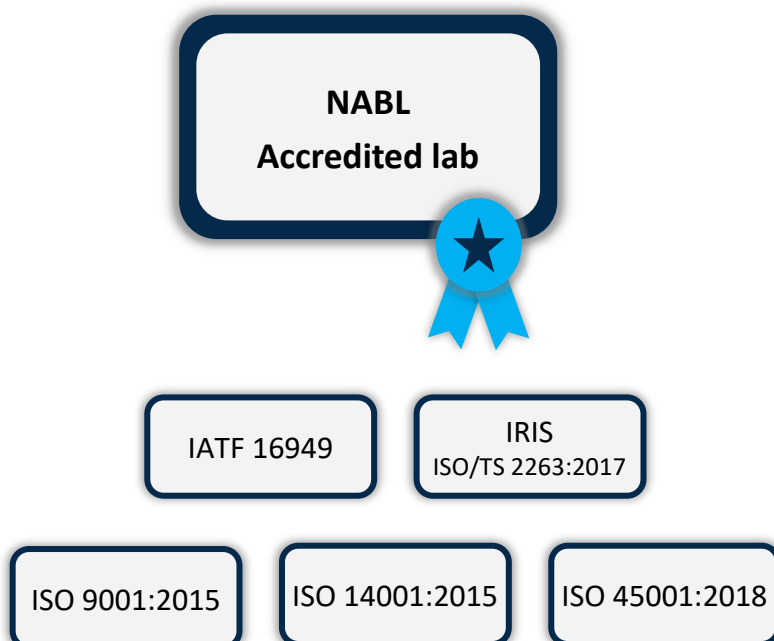
Kneader



Two Roll Mill



Quality Management System & Certifications



Special Quality Recognitions

- TPM from JIPM, Japan
- Q1 from Ford
- VDA 6.3
- SQ Mark from Hyundai
- ASES from Renault Nissan

Note: NABL Accreditation covers incoming RM, development testing & final compound testing.

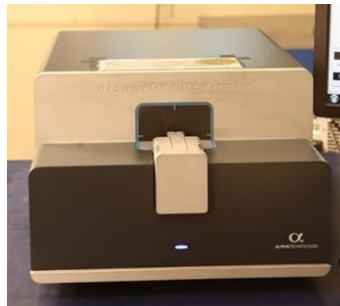
Material Testing Infrastructure

1. Micro Hardness Tester (IRHD)
2. Specific Gravity Meter
3. Dispersion analyzer
4. Thermo Gravimetric Analyzer (TGA)
5. Differential Scanning Calorimeter (DSC)
6. Universal Testing Machines (UTM)
7. Environment chambers
8. FTIR Spectroscopy
9. Ozone chamber
10. Low temperature cabinet
11. Oscillating rheometer
12. Moving die rheometer
13. Demattia flex tester
14. DIN Abrasion tester

**NABL
Accredited lab**



**Micro Hardness Tester
(IRHD)**



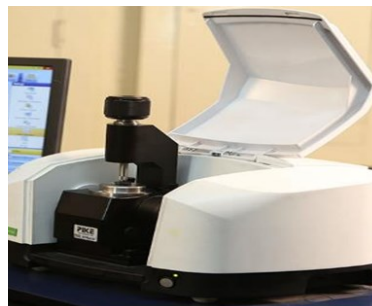
Dispersion Analyzer



**Thermo Gravimetric
Analyzer (TGA)**



**Differential Scanning
Calorimeter (DSC)**



FTIR Spectroscopy



Zwick UTM

Our Lab Houses State Of The Art Testing Facilities:

1. Melting point apparatus: Determination of melting point of solid substances
2. Bulk/Tap Density apparatus: Determination of bulk/tap density of black / white fillers
3. Individual Pellet Hardness Tester (IPHT): To measure the hardness of carbon black granules
4. Rapid moisture analyzer for raw material
5. Muffle furnace (850°C): Determination of ash, loss on ignition
6. Brabender absorptometer: Oil absorption number (OAN) of carbon blacks
7. Plastimeter: Testing of initial plasticity & PRI of NR
8. Vibratory sieve shaker: For particle size distribution

#	Characteristics Tested	Test Method
1	Ozone resistance test	ASTM D 1171 (Method A)
2	Abrasion resistance –abrasion loss	ASTM D 5963 (Method B -Clause 12.1)
3	Compression set	ASTM D 395 (Test method B), JIS K 6262
4	Density	ASTM D 297
5	Elongation	ASTM D 412 (Method A)
6	Elongation at break	JIS K 6251
7	Micro IRHD (M)	ASTM D 1415, JIS K 6253-2
8	Oil ageing - volume change	ASTM D 471
9	Resistance to air ageing –elongation	ASTM D 573
10	Resistance to air ageing –elongation at break	JIS K 6257
11	Resistance to air ageing –tensile strength	JIS K 6257
12	Resistance to ageing (air ageing) tensile strength	ASTM D 573
13	Resistance to ageing (oil ageing) elongation	ASTM D 471
14	Resistance to oil ageing –tensile strength	ASTM D 471
15	Rubber hardness test	ASTM D 2240
16	Shore hardness	JIS K 6253-3
17	Tear strength type - C	ASTM D 624
18	Tensile strength	JIS K 6251
19	Tensile test: tensile strength	ASTM D 412 (Method A)
20	Stress at 100% elongation	ASTM D412 (Method A)
21	Ash content	ASTM D 297

Why should you prefer us?



TVS has a legacy of more than 100 years. The name you can trust on and build great partnerships



One stop end-to-end solution - right from design & development to finishing – every operation is performed in-house.



We understand the importance of supply chain – shorter delivery timeline and on time supplies



Well networked supply chain to deliver products to any of your global facility



We will be your partner in growth assisting your product enhancement & development plans

Sundaram Industries Private Limited

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Factory: Madurai, Tamil Nadu

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Sundaram Industries Pvt. Ltd. reserves the right to change the contents of its brochure without prior notice.

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