# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**PTP Name :** HARI SHANKAR SINGHANIA ELASTOMER AND TYRE RESEARCH INSTITUTE, PLOT NO 437, HEBBAL INDUSTRIAL AREA, MYSORE, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17043: 2010

**Certificate Number** PC-1058 **Page No** 1 of 4

**Validity** 30/11/2021 to 29/11/2023 **Last Amended on** -

| S.No | Discipline/ Sub-discipline | Proficiency Testing Scheme/ Type of PT Item/ Matrix | Measurand/ Characteristic/ Type of measurand/ Type of characteristic/ Analyte/ Parameter |
|---|---|---|---|
| 1 | TESTING-CHEMICAL | Simultaneous Scheme/ Accelerators, | Melting point of Accelerators, Antioxidants, Resins, Polymers |
| 2 | TESTING-CHEMICAL | Simultaneous Scheme/ Carbon black | Ash content |
| 3 | TESTING-CHEMICAL | Simultaneous Scheme/ Carbon black | Heat loss |
| 4 | TESTING-CHEMICAL | Simultaneous Scheme/ Carbon black | IAN no |
| 5 | TESTING-CHEMICAL | Simultaneous Scheme/ Carbon black | Nitrogen surface area |
| 6 | TESTING-CHEMICAL | Simultaneous Scheme/ Carbon black | Oil absorption number |
| 7 | TESTING-CHEMICAL | Simultaneous Scheme/ Carbon black | pH |
| 8 | TESTING-CHEMICAL | Simultaneous Scheme/ Latex | pH |
| 9 | TESTING-CHEMICAL | Simultaneous Scheme/ Latex | Total Solid |
| 10 | TESTING-CHEMICAL | Simultaneous Scheme/ Natural Rubber | Ash content |
| 11 | TESTING-CHEMICAL | Simultaneous Scheme/ Natural Rubber | Dirt content |
| 12 | TESTING-CHEMICAL | Simultaneous Scheme/ Natural Rubber | Nitrogen content |
| 13 | TESTING-CHEMICAL | Simultaneous Scheme/ Natural Rubber | Volatile matter |
| 14 | TESTING-CHEMICAL | Simultaneous Scheme/ Process oil | Aniline point |
| 15 | TESTING-CHEMICAL | Simultaneous Scheme/ Process oil | Density |
| 16 | TESTING-CHEMICAL | Simultaneous Scheme/ Process oil | Flash point |
| 17 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Chemical (Antidegradants, Accelerators, Resins) | Ash content |
| 18 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Chemical (Antidegradants, Accelerators, Resins) | Heat loss |

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|---|---|---|---|
| 19 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Chemical (Antidegradants, Accelerators, Resins) | Softening point |
| 20 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Chemical (Antidegradants, Accelerators, Resins) | Volatile matter |
| 21 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Product | Ash content |
| 22 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Product | Carbon Black Content |
| 23 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Product | Extract content |
| 24 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Product | Polymer content |
| 25 | TESTING-CHEMICAL | Simultaneous Scheme/ Rubber Product | Polymer identification |
| 26 | TESTING-CHEMICAL | Simultaneous Scheme/ Silica | Ignition loss |
| 27 | TESTING-CHEMICAL | Simultaneous Scheme/ Silica | Nitrogen surface area |
| 28 | TESTING-CHEMICAL | Simultaneous Scheme/ Silica | pH |
| 29 | TESTING-CHEMICAL | Simultaneous Scheme/ Synthetic Rubber | Ash content |
| 30 | TESTING-CHEMICAL | Simultaneous Scheme/ Synthetic Rubber | Glass transition temperature |
| 31 | TESTING-CHEMICAL | Simultaneous Scheme/ Synthetic Rubber | Mixed organic acid content |
| 32 | TESTING-CHEMICAL | Simultaneous Scheme/ Synthetic Rubber | Oil content |
| 33 | TESTING-CHEMICAL | Simultaneous Scheme/ Synthetic Rubber | Soap content |

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|---|---|---|---|
| 34 | TESTING-CHEMICAL | Simultaneous Scheme/ Synthetic Rubber | Volatile matter |
| 35 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Abrasion Loss |
| 36 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Abrasion Resistance Index |
| 37 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Breaking Elongation |
| 38 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Compression Set |
| 39 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Density |
| 40 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Glass Transition Temperature |
| 41 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Hardness (IRHD) |
| 42 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Hardness (Shore A |
| 43 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Heat Buildup |
| 44 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Loss Modulus |
| 45 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Ozone Resistance |
| 46 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Rebound Resilience |
| 47 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Storage Modulus |
| 48 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Stress at 300% Elongation |

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|---|---|---|---|
| 49 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | tan delta |
| 50 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Tear Strength |
| 51 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Cured elastomeric compound) | Tensile Strength |
| 52 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Raw) | Mooney Viscosity |
| 53 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Uncured elastomeric compound) | Maximum Torque |
| 54 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Uncured elastomeric compound) | Minimum Torque |
| 55 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Uncured elastomeric compound) | Mooney Scorch |
| 56 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Uncured elastomeric compound) | Optimal cure time |
| 57 | TESTING-MECHANICAL | Simultaneous Scheme/ Rubber (Uncured elastomeric compound) | Scorch Time |
| 58 | TESTING-MECHANICAL | Simultaneous Scheme/ Steel Cord | Breaking Strength |
| 59 | TESTING-MECHANICAL | Simultaneous Scheme/ Steel Cord | Elongation at Break |
| 60 | TESTING-MECHANICAL | Simultaneous Scheme/ Steel Cord | Linear Density |
| 61 | TESTING-MECHANICAL | Simultaneous Scheme/ Textile | Breaking Strength |
| 62 | TESTING-MECHANICAL | Simultaneous Scheme/ Textile | Cable Twist |
| 63 | TESTING-MECHANICAL | Simultaneous Scheme/ Textile | Elongation @ Break |
| 64 | TESTING-MECHANICAL | Simultaneous Scheme/ Textile | Part Load Elongation at (6.8kg) |
| 65 | TESTING-MECHANICAL | Simultaneous Scheme/ Textile | Thermal Shrinkage |