


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>UKAS</b> TESTING 1677</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Tun Abdul Razak Research Centre</h3> <p>Issue No: 038    Issue date: 23 February 2026</p>	
	<p><b>Brickendonbury</b> Hertford Hertfordshire SG13 8NL</p>	<p><b>Contact: Ms J Patel</b> Tel: +44 (0)1992 584966 Fax: +44 (0)1992 554837 E-Mail: <a href="mailto:jpatel@tarrc.co.uk">jpatel@tarrc.co.uk</a> Websites: <a href="http://www.tarrc.co.uk">www.tarrc.co.uk</a> <a href="http://www.rubberconsultants.com">www.rubberconsultants.com</a></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RUBBERS/ELASTOMERS, RUBBER/ELASTOMER PRODUCTS AND MATERIALS IN CONTACT WITH RUBBER	<p><u>Chemical Tests</u></p> <p>Aromaticity of oils extracted from rubbers/rubber compounds</p> <p>Nitrosamine testing of rubber</p> <p>Qualitative and Quantitative Analysis for rubber identification and content</p>	<p>Documented In-House Method 093a using NMR according to ISO 21461:2012</p> <p>Documented In-House Method 051 using Gas Chromatography with Nitrogen Chemiluminescence Detection, covering BS EN 12868:1999 and BS ISO 29941:2010</p> <p>Documented In-House Methods using:</p> <ul style="list-style-type: none"> <li>- Thermogravimetric Analysis (TGA): method 011</li> <li>- Differential Scanning Calorimetry (DSC): method 012a</li> <li>- FT-IR Spectroscopy: Method 031a</li> <li>- Pyrolysis with Infra-Red (PIR) including surface ATR Spectroscopy: method 031b</li> <li>- TG-IR interface Method 031c (IR interfaced to TGA)</li> </ul>



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RUBBERS/ELASTOMERS, RUBBER/ELASTOMER	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods using:
RUBBER, POLYMERS, PLASTICS, ELASTOMERS	Identification of elements for composition analysis, reverse engineering filler type, or contamination	Documented In-House Methods using:
RUBBER, POLYMER, PLASTIC, ELASTOMER PRODUCTS		Scanning Electron Microscopy (SEM) with Energy Dispersive X-ray Spectrometry (EDS), Line-scans and X-ray Mapping Spectrometry: methods 072b and 072d
MATERIALS IN CONTACT WITH RUBBERS, POLYMERS, PLASTICS, ELASTOMERS	<u>Chemical and Physical Test</u>	Documented In-House Methods using:
MATERIALS IN CONTACT WITH RUBBERS, POLYMERS, PLASTICS, ELASTOMERS		
RUBBER, POLYMERS, PLASTICS, ELASTOMERS	Qualitative scanning electron microscopy (SEM) using magnifications in the range 1.5x to 300,000x Quantitative measurement of length using magnifications in the range 50x to 30,000x	- Scanning Electron Microscopy (SEM): method 072c
RUBBER, POLYMER, PLASTIC, ELASTOMER PRODUCTS		- Sample preparation for scanning electron microscopy (SEM); method 072a
RUBBERS, POLYMERS, PLASTICS, ELASTOMERS	<u>Physical Tests</u>	Documented In House Method using:
RUBBER, POLYMER, PLASTIC, ELASTOMER PRODUCTS	Optical Microscopy/Qualitative Analysis	
MATERIALS IN CONTACT WITH RUBBERS, POLYMERS, PLASTICS, ELASTOMERS	Quantitative measurement of length using magnifications in the range: 200x to 500x for phase contrast and 100x to 500x for transmitted, incident, bright field, and dark field imaging (using compound optical microscope)	
	4x to 112x using stereo optical microscope	- Stereo Optical Microscope with digital camera: Method 071c - Zoom lens with digital camera for low magnification imaging: method 071b



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TYRES - COMMERCIAL AND PASSENGER VEHICLES	<u>Performance Test</u> Endurance 200 - 5000 kgf	Documented In-House Method based on, and meeting the requirements of, ECE 30, 54, 108 and 109 (TTL 002)
END		